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UNITED STATES PUBLIC HEALTH SERVICE

HUGH S. CUMMING, Surgeon General

DIVISION OF SANITARY RELORDS AND STATISTICS

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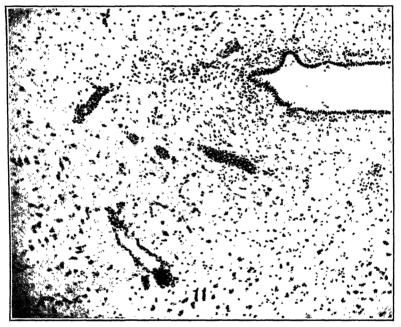
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Monkey 39. Mesencephalon. About the aqueduct there are several blood vessels the sheaths of which are packed by lymphocytes and a few leucocytes. There is pronounced reaction on the part of the neuroglia

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CANCER MORTALITY IN THE TEN ORIGINAL REGISTRATION STATES

Trend for the Period 1900-19201

By J. W. Schereschewsky, Surgeon, United States Public Health Service

The progressive increase in the cancer death rates shown in the mortality statistics in practically all civilized countries has invited the serious attention of students of the public health. The more optimistic are of the opinion that these increases in the death rate may be accounted for by improvements in medical diagnosis, increase in the accuracy of vital statistics in general, greater precision in filling out death returns, changes in the age distribution of the population, and similar factors.

Yet others are inclined to a gloomier view of the situation. They hold that the magnitude of the observed increases in the death rate is too great, too general in its distribution, to be accounted for in any such way, so that the apparent is also an actual increase in the cancer martality.

Because of the importance and interest of this question, it was thought well worth while to attempt a critical analysis of the course of the cancer mortality in the 10 original registration States, i. e., Connecticut, Indiana, Maine, Massachusetts, Michigan, New Hampshire, New Jersey, New York, Rhode Island, and Vermont. This area was chosen because it is the only one available in this country for continuous study over the selected period of 21 years, as the other States now forming the registration area were added from time to time to the original 10.

Moreover, these States, with the exception of Indiana and Michigan, were all situated in a similar geographic section. The population, about 19,800,000 in 1900, and more than 27,000,000 in 1920, represents about 25 per cent of the total population of the United States, and hence is sufficiently large to give considerable mass value to the data. Besides this, the population is about as homogeneous a group as we are likely to get in a country made up of such diverse racial stocks as ours, and it exhibited about the same changes in racial composition, owing to immigration during the period of observation.

73520°—26†——1

¹ Read before the Section on Prevent ve and Industrial Medicine and Public Health at the seventy-sixth annual session of the American Legical Association, Atlantic City, N. J., May, 1925. From the Journal of the American Medical Association, vol. 85, No. 16, October 17, 1925, pp. 1175-1179.

The source of the data for analysis was the published mortality statistics of the United States Bureau of the Census, and the decennial census reports.

The following method of study and analysis was employed:

Taking the enumerated populations of "all ages," and also for the specific age groups "under 5 years," 5–9, 10–19, 20–29, 30–39, 40–49, 50–59, 60–69, "70 years and over" as given in the United States census reports of 1900, 1910, 1920, the intercensal population of all ages and by specific age groups was estimated by the arithmetical method. In estimating the population, complilations were made as of January 1 instead of July 1, because of slightly greater convenience, while at the same time no sensible error in the comparative validity of the tables was introduced. Since specific age groups were dealt with, the population of unknown age was omitted from the estimated figures.

General cancer death rates and specific death rates were then computed, first, for all forms of cancer and then for cancer by the seat of organ affected, the international classification being used. In the case of cancer of the breast and cancer of the female genital organs, rates were computed on the basis of the estimated female population, as cancer of the breast is almost whally, and cancer of the female genital organs exclusively, confined to that sex.

The extent of death certification by medical men, the changes and improvements in the practice of death certification and in diagnosis, the corrections to be applied for changing age distribution, and finally changes in racial stock due to immigration and the effects of these factors on the mortality rates were each considered in their turn. The results of this analysis and interpretation of the dag are now in the process of publication. They are entirely too be given in extenso here. However, by using a somewhat differenthod of age grouping, the main results of the inquiry, their in pretation, and the resulting conclusions may be briefly prefer to the same of the changes and improvements and the resulting conclusions may be briefly prefer to the same of the changes and improvements are the considered in their turn.

The population aged 40 years and over is the imregroup, so far as cancer mortality is concerned. In 1900, age under consideration, this age group furnished above the per cent, and in 1920 about 92.5 per cent of all the cancer

¹ In the international classification of causes of death, cancers are the "cancer and other malignant tumors" which in turn, is subdivided. The general rubric is (2) cancer of the stomach and liver; (3) cancer of the peritoneum, inter of the buccal cavity; female genital organs; (5) cancer of the breast; (6) cancer of the stomach and liver; (3) cancer of the stomach of other organs or of organs not specified. It should be noted that this classification was form for the 21 years. Thus, prior to 1910, we find the rubries "cancer of the mouth" of the intestines" in the place of "cancer of the buccal cavity" and "cancer of the peritons," and rectum." These differences in classification may have had some effect on the figure was probably small.

The population 40 years and over of the 10 origin. States was 5,313,459 in 1900; in 1920, 8,145,709. It distribution given in Table 1.

Table 1 .- Age distribution of 10 original registration States

Age group		0	101	
	Population	Per cent	Population	F
40-49. 50-59. 60-69.	2, 228, 723 1, 534, 625 963, 991 550, 120	41. 94 28. 88 18 14 11. 03	3, 421, 204 2, 431, 602 1, 453, 490 839, 413	42.60 23.85 17.84 10.30
Total	5, 313, 459	99, 99	8, 145, 709	93.99

From this age distribution the somewhat unexpected fact is noted that, in spite of the increase in the median age of the general population that has taken place since 1900, in the population aged 40 years and over, the proportion of elderly persons 60 years and over was greater in 1900 than it was in 1920 (29.17 and 28.14 per cent, respectively). If we redistribute the 1920 population of 40 years and over according to the 1900 percentage composition and apply the appropriate 1920 cancer death rates to each of the resulting age groups, it is found that instead of the 25,368 that were reported for this section of the population, 25,806 deaths would have occurred. This corresponds to a rate of 316.8 per 100,000, or 5.4 points higher than the observed 1920 rate of 311.4.

From this it follows that the cancer death rates in this group of the population may be compared for the period of 1900–1920 without the necessity of introducing any correction for a changing age distribution, as at any ingention in the case of the later years of the period. The creasi prefere, we arrive immediately at the conclusion that any increase is observed in the cancer deaths of this group of the population crease ependent of changes that may have taken place in the age distance in the age distance in the cancer deaths.

tributic and Table 2 show the changes that have occurred in the Chart 1 from cancer of all forms, and by site of the organ affected death rates in the population 40 years and over, the rates for cancer of the breast and cancer of the female genital organs being based on the female population 40 years and over, which has practically the same age

From this chart at the death rate from cancer of all forms, and in the taken place in the different organ scats, the only exception nearly all the cancers of

ric, "other organs or organs not specified," of which isaid later.

ig the initial and the final rates, the percentage increases pable 3 are observed. It is apparent that with the exception is of the skin and cancers of other organs or organs not id, the increases have been pronounced and striking. Cancers peritoneum, intestines, and rectum have shown the greatest

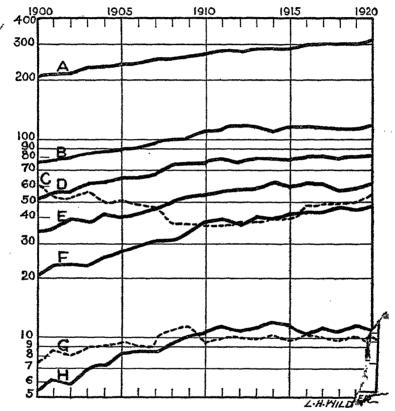


CHART 1.—Death rate, per hundred thousand of population, from all forms of cancer. and by site of organ affected, in age group 40 years and over, in the registration States of 19 organs not period 1900-1903: A, cancer, all forms; B, stomach and liver; C, other organs or specified; D, female genital organs; E, female breast; F, peritoneum, intesting and rectum; G, skin; H, buccal cavity.

advance, the percentage increase over the 1900 rate being 148.4. Cancers of the skin, on the other hand, as shown by the chart, have shown no increase in the rate since about 1909, while the curve for other organs, or organs not specified, is different from that for other varieties of cancer, in that the curve shows a pronounced downward concavity.

Table 2.—Death rate from cancer 1

Year	Cancer, all forms	Buccal cavity	Stomach and liver	Periton- eum, in- testine and rectum	Female ² genital organs	Breast 2	Skin	Other or un- specified organs
1900. 1901. 1902. 1904. 1905. 1906. 1907. 1908. 1909. 1910. 1911. 1912. 1913. 1914. 1915. 1916. 1917. 1918. 1919.	217. 4 227. 9 232. 2 238. 8 240 0 248. 5 251. 0 259. 0 270. 8 273. 8 278. 0 286. 0 293. 2 300 0 301. 4 299. 7 302. 3	5.50 6.13 6.0 6.84 7.25 8.06 8.11 10.08 10.4 11.35 10.82 12.24 11.51 10.54 11.25 10.78	77. 1 78. 1 80. 6 85. 0 89. 2 90. 8 91. 6 96. 2 99. 3 102. 1 109. 0 107. 5 114. 5 114. 1 114. 1 116. 2	19. 0 23 7 23 69 22 95 25 03 27. 48 29. 2 30 91 31. 44 34. 9 38. 28 39. 5 38. 49 42. 2 41. 88 44. 96 45. 0 46. 95 45. 45	51. 0 56. 7 55. 9 60. 4 61. 9 63. 6 62. 6 65. 8 74. 5 77. 7 77. 8 80. 7 78. 3 82. 3 82. 4 84. 4 84. 0	34 4 6 38 5 39 5 39 5 42 3 41.2 7 46 6 50.1 55.0 57.2 56.5 64 0 59.8 6 62.8 59 5 5 62.8	7. 36 8. 59 8. 06 8. 79 9. 13 8. 79 9. 95 10. 91 11. 0 9. 81 10. 07 9. 81 10. 19 9. 81 10. 13 9. 33	60. 75 55. 4 51. 65 54. 85 50. 4 51. 4 50. 3 47. 45 38. 6 37. 37 38. 61 38. 12 38. 91 40. 5 42. 11 43. 45 47. 21 48. 55 49. 03 50. 2 54. 9

¹ The rate given is that for each 100,000 of population, aged 40 years and over, all forms and by site of organ affected, in the 10 registration states of 1900, for the period 1900-1920. ² These rates figured on women, aged 40 and over.

Table 3.—Percentage increases in death rate from cancer of all forms

Ü	Death 1	rate per	Per cent
	1900	1920	increase
Cancer, all forms Buccal cavity. Stomach and liver Pentoneus 'atestines and rectum Female genits' organs 1 Breast 2 Skin Other organs or organs not specified	212. 0 5. 5 77. 1 19. 0 51. 0 34. 4 7. 36 60. 75	311. 4 11. 18 116. 2 47. 2 84. 0 62. 8 9. 38 54. 9	46. 9 103. 4 50. 7 148. 4 64. 7 82. 6 27. 4

Female population 40 years and over.
Decrease.

As explained by the Census Bureau, the form of this curve is undoubtedly due to increased precision in stating the site of the malignant growth on the death certificate, the fuller information resulting from the efforts of the Census Bureau and local registrars to improve death registration, permitting the assignment of a larger proportion of cancers to the proper seat of the disease.

Reference to the curve, however, shows us that apparently this gain in accuracy, which produced a striking drop in the mortality rate under this rubric in the period 1900-1909, became stabilized at about that time, as the curve for this classification of cancer shows a steady rise, the percentage increase in the rate from 1910 (the low point) to 1920 being 47 per cent. Since the precision of death certification was presumably as great in 1920 as in 1910, this rise in the

death rate curve from that year must be due to an increase in the reported nuraber of deaths of persons 40 years and over from cancers of this class. The types of cancer classified by the Census Bureau under the rubric "cancer of other organs or organs not specified" are cancer of the larynx, lungs and pleura, pancreas, kidneys and suprarenals, prostate, bladder, brain, bones (except jaw), testes, and others of this class.

On the face of things, in the population 40 years and over, and independent of any change in age distribution, there has been a pronounced increase in all forms of cancer and of cancer of nearly all the specified sites. Before accepting this as an actual increase in the cancer mortality, however, we should subject these data to some interpretation.

The validity of mortality returns are, of course, importantly affected by the extent to which causes of death are reported by members of the medical profession and not by laymen, as is too often permitted.

However, so far as the States in question are concerned, inquiry showed that practically 100 per cent of death returns for the period under consideration were signed by duly licensed physicians, and consequently the diagnostic error was that inherent in the diagnoses of the medical profession in general, uncomplicated by errors due to the reporting of deaths by laymen.

Statistically, therefore, the mortality statistics of the 10 original registration States have a high degree of validity and from this standpoint are much more reliable than those of certain foreign countries that permit laymen to certify to causes of death.

As Willcox points out, another factor that may alter the reliability of death returns is the extent of available medical services. In regions where physicians are scarce the death returns are less trustworthy than where they are plentiful.

From this standpoint, however, the 10 States considered have little to be desired. In 1906 the total number of physicians in these States was 33,127, a ratio to the population of 1:666. In 1921 this number was 39,389, a ratio of 1:708.

From this it is evident that in these registration States the ratio of medical men to the general population is very high, more than twice as high, for instance, as in England or in Germany. This betokens a high degree of availability of medical services for diagnosis and treatment of the sick. Moreover, we could not ascribe part of the observed increase in the cancer death rates to increase in the availability of medical services, as the ratio of physicians to the general population was slightly greater during the early years of the period of observation than it was later.

Consequently, since no correction resulting either; s from lack of medical certification or available medical services needed be applied to these rates, the remaining elements that should be extramined for trustworthiness, and suitably corrected if need be, consist in allowances that should be made for improvements in the precentation and accuracy in returning causes of death, progress in medical dialognosis, and the influence on the cancer death rate due to the changes with rought in the racial stock by immigration.

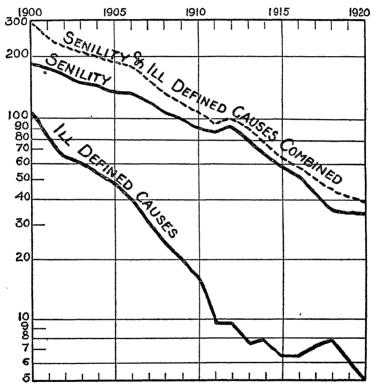


CHART 2.—Death rate per hundred thousand population, from scrility, ill-defined causes, and the combined rate, in age group 40 years and over, in the registration States of 1900 for the period 1900-1920.

Even casual examination of the mortality returns over a series of years shows that a pronounced change in the direction of greater precision and detail in the filling out of death certificates must have taken place. An important improvement in this direction is demonstrated, as pointed out by Willcox, by Howard, and by others, but the great changes that have taken place in the deaths reported in this age group are due to "indefinite" causes and to senility. This is well shown in Chart 2.

While the /general death rate in persons 40 years and over has shown but linds change during the period of observation, this chart shows that the death rate from "ill-defined" causes fell during the 21-year p eriod from 108 to 5, a decrease of more than 95 per cent. In similar feshion, the mortality rate from senility declined from 185 in 1900, to 34.1 in 1920, a decrease of nearly 82 per cent.

This e drep in the combined death rate from these causes has been from 293 in 1900 to 39.1 in 1920, a decrease of nearly 87 per cent.

Since there has been no significant change during the period of observation in the general death rate of persons 40 years and over the great reduction in the death rates from indefinite causes and senility must have been effected by a gradual redistribution of deaths formerly reported under these rubrics to other more precise classifications.

The observed reduction in the reported deaths from these causes is thus good testimony to increasing accuracy and precision in death certification. If the 1920 rate for deaths from ill-defined causes and for senility had prevailed in 1900, instead of the 15,568 deaths reported under these rubrics, only 2,077 deaths would have been attributed to these causes in the population 40 years and over. For that year, this would leave 13,491 deaths to be redistributed among other more precise classifications. Here, then, is a source of excess deaths which, if all assigned to cancer, would much more than obliterate any advances in the cancer death rate.

Of course, there is no justification for any such extreme correction of the cancer death rate, as besides cancer, other diseases, such as diseases of the circulatory system, have shown even more dramatic increases than cancer in this age group. However, we must assume that a certain proportion of the deaths certified to formerly as due to ill-defined causes and to "old age" were in reality due to cancer. It is of interest to see what adjustment must be made in the cancer death rate if we assign a fair proportion of these deaths to the cancer classification.

Since the number of deaths in persons under 60 reported as due to senility is negligible, we must divide our age group 40 and over into two subgroups, one aged 40-59, and the other 60 and over.

In the first group, in 1900 there were 1,331 deaths reported as due to ill-defined causes and senility, as against 152 in 1920. Had the 1920 rate prevailed in 1900, only 98 deaths would have been reported as due to these causes, leaving a difference of 1,233 deaths to be distributed among other causes of death. In 1920 the deaths from cancer formed 13.7 per cent of all deaths in this group with the exception of those due to senility and to ill-defined causes. So, if for the sake of liberal adjustment we add 13.7 per cent of the excess deaths to be redistributed, 169 additional deaths attributable to cancer

result, to be added to the 5,043 reported deaths, making a total of 5,212 deaths. The adjusted rate resulting from this addition is 138.5 instead of 134.

As the 1920 rate was 176.7, the difference between this and the adjusted 1900 rate for this group is 38.2 instead of 42.7 points. Since 38.2 is about 89.5 per cent of 42.7, a little more than 10 per cent of the increase in the cancer death rate in this group may be ascaribed to greater precision in certifying causes of death.

Treating the age group 60 and over in similar fashion, we find that in 1900, 14,237 deaths were reported as due to senility and to ill-defined causes. Substituting the 1920 rate of 13.2, only 3,033 deaths would have resulted, leaving 12,188 deaths to be reassigned under more definite classifications. Since, in 1920, 10.6 per cent of all deaths in this age group (except those due to senility and to ill-defined causes) were due to cancer, 10.6 per cent of 12,188 gives 1,292 deaths to be added to the 6,220 reported cancer deaths. This gives an adjusted rate of 484.6, as compared with the observed rate of 401.3. The differences between the reported and adjusted 1900 rate and the 1920 rate are 253.9 and 170.6, respectively, corresponding to percentage increases of 63.3 and 35.2.

Since 170.6 is about 67 per cent of 253.9, 33 per cent of the observed increase could be explained by transfer to the cancer column of deaths in which the cause was erroneously reported as due to senility or other ill-defined causes.

In making this correction, it has been assumed that the excess deaths are assigned to other causes in the proportion these have to the total deaths from all causes in each age group, the 1920 percentage of cancer, the highest observed, being used in this case.

Willcox believes that this method of correction tends to underestimate rather than overestimate the transfer, since the modern tendency is away from vague and indefinite to specific and definite causes of death. Hence, he believes that there has been a greater tendency to certify cancer, with the increase in precision of death certification, than would be indicated by its chance frequency as a cause of death.

It is believed, however, that the method of correction is liberal for the following reasons: In the first place, the 1920 percentage that cancer formed of all deaths is used, thus representing the more nearly stabilized practices of present day death certification. The circumstance is ignored that, if cancer has actually increased, there would naturally be to-day a higher percentage of cancer among all deaths than formerly.

Again, we include in the cancer deaths a large number of deaths due to cancer of accessible sites, such as the buccal cavity, breast, female genital organs and skin, about which, as is conceded, errors, so far as death certification is concerned, hardly ever occur. In fact, with regard to such types of cancer, it may be concluded that throughout the entire period of observation the tendency to report a vague and indefinites rather than a specific cause of death was negligible as compared to other varieties of cancer, and very much less than for other causes of death, such as organic diseases of the heart.

There is still another correction that must be discussed. While the cancer death rate has been increasing, that due to nonmalignant timors has been falling. In 1900, the rate was a little over 12 per hundred thousand for persons 40 years and over, while in 1920 it was but 7.9. Had the latter rate prevailed in 1900, only 420 instead of 646 deaths would have occurred. This gives a difference of 226 deaths reported as nonmalignant but which, presumably, were due to cancer.

Let us now review briefly how matters stand as to the various adjustments that should be made in this group.

A ge group	Transfers to cancer from—	Deaths
40-59 years 60 years 40 years	"Ill-defined" deaths. "Ill-defined" deaths and senlity	1, 292 226 1, 687

TABLE 4 .- Redistribution

In regard to changing age distribution, it has already been pointed out that if the population aged 40 and over were redistributed according to the age constitution prevailing in 1900, the 1920 rate of 311.4 should be somewhat increased, to 316.8. This rate is greater than the observed rate of 212 in 1900 by 49.5 per cent. In 1900 there were reported 11,263 cancer deaths in this group. As a result of the previous computations, the number of deaths given in Table 4 should be added to this figure.

This total, added to the 11,263 already reported, gives 12,950 deaths. This yields a death rate per hundred thousand of 243.9, 31.9 points higher than the observed rate of 212.

This adjusted rate is less than the 1920 rate adjusted for change in age distribution of 316.8 by 72.9 points. This corresponds to an increase of 29.9 instead of 49.5 per cent. As 72.9 is about 69.5 per cent of 104.8 (the difference between the 1920 adjusted and the 1900 observed rate), a little more than 30 per cent of the increase in this age group could be attributed to greater precision and more accuracy in returning the causes of death.

One aspect that must be considered in connection with the increase in cancer mortality is the extent to which general improvement in diagnostic skill may have contributed to such increase. It must, however, be borne in mind that here we are dealing, not with improvement in the early diagnosis of cancer, when there is still hope of arresting the disease, but with the diagnosis of cancer in its to brain al stages.

From this standpoint, and especially in the recognition of care of the accessible sites, such as the buccal cavity, the breast, and the female genital organs, it is doubtful whether the physicians of 1,900 were much, if at all, inferior to their brethren of to-day.

Yet the death rates of some of these cancers of accessible sites, such as the buccal cavity, the breast, and the uterus, show a higher percentage increase than that of an inaccessible site, such as cancer of the stomach and liver.

This is shown by the following percentage increase in the rates: Cancer of the buccal cavity, 103.4 per cent; cancer of the uterus, 64.7 per cent; cancer of the breast, 82.6 per cent; cancer of the stomach and liver, 50.7 per cent.

It is true that the disproportionate increase in the death rate from cancer of the peritoneum, intestine, and rectum would indicate some improvement in the diagnosis of these types of cancer. The evidence just given, however, is somewhat weakened by the failure of skin cancer to advance since about 1910.

While no completely satisfactory explanation is at hand, we may suppose here that the superficial situation, generally lower malignancy, greater amenability both to surgical removal and to radiotherapy, and the much higher average age at death may be cited as factors that would explain the failure of skin cancers to advance pari passu with the other varieties.

Before concluding, let me refer briefly to one other point. This is the probable effect on the cancer death rate of the changes in racial stock effected by immigration during this period. It is well known that the character of immigration has been changing. Formerly, immigrants originated mainly from northern and western Europe. Now they come mainly from southern and eastern Europe. The races contributing to the "old" immigration have been the English, Celtic, Teutonic, and Scandinavian. The predominant racial stocks in the "new" immigration are Italian and Slavic.

Since the reported cancer death rates in the latter stocks, so far as statistics are available, seem lower, and certainly are no higher than in the racial stock that originated the old immigration, we may assume that the changes in racial stock due to immigration had, if anything, a tendency to lower rather than to raise the prevailing cancer death rates.

CONCLUSIONS

1. There has been a pronounced increase in the observed death rate from cancer in persons 40 years and over in that part of the United States known as the 10 original registration States.

2. Paro t of this increase (about 30 per cent) is due to greater precision and accuracy in the filling out of death returns.

3. The remainder, however, is an actual increase in the mortality resulting in a death rate between 25 and 30 per cent higher than it was 21 years ago.

PRINCIPAL CAUSES OF DEATH, 1924

The Department of Commerce announces that 1,173,990 deaths occurred in 1924 within the death registration area of continental United States, representing a death rate of 11.9 per 1,000 population as compared with 12.3 in 1923, 11.8 in 1922 and 11.6 in 1921.

The death registration area (exclusive of the Territory of Hawaii) in 1924 comprised 39 States, the District of Columbia, and 18 cities in nonregistration States, with a total estimated population on July 1 of 99,030,494, or 88.4 per cent of the estimated population of the United States.

The decrease in the rates from influenza, from 44.7 per 100,000 population in 1923 to 19.6 in 1924, and from pneumonia, all forms, from 109 to 98.4, accounts for nearly three-fourths of the decrease in the rate from all causes. Some of the other causes for which the rates decreased are measles, diphtheria, diarrhea and enteritis (under two years), and tuberculosis (all forms).

Slight increases appear in the death rates from diseases of the heart, cancer, and automobile accidents.

The following table shows for the death registration area in continental United States in 1923 and 1924, the total number of deaths and the death rates from leading causes.

	Deaths in the registration area (exclusive of Hawaii)					
Cause of death	Nun	Rate per 100,000 estimated pop- ulation				
	1924	1923	1924	1923		
All causes 1	1, 173, 990	1, 193, 017	1,185 5	1,230 1		
Typhoid and paratyphoid fever M daria Smallpox Mensles Scarlet fever Whooping cough Diphtheria Influenza Dysentery Erysipolas Lethargio encephalitis Meningooceus meninatis Tabagudosis (all forms) Qf the respiratory system Qf the meninges, central nervous system	2, 441 5, 514 3, 122 8, 128 9, 316 19, 374 2, 458 1, 441 964 89, 724 78, 096	0, 635 2, 736 1, 450 3, 440 91, 733 43, 370 3, 118 2, 593 1, 966 1, 026 90, 732 79, 534	2 5 9 6 2 3 3 4 6 9 5 5 5 0 6 2 1 1 6 6	6.8 0.1 10.8 3.57 12.1 44.7 3.2 2.0 1.1 93.6 52.0 4.1		

^{*}Exclusive of stillburths

	Deaths in th	ne registration of Hawai		zclusive
Cause of death	Num	ıber	Rate per estimate ulat	ed pop-
	1924	1923	1924	1923
Syphilis ² Cancer and other malignant tumors. Rheumatism. Pellagra Diabetes mellitus. Meningitis (nonepidemic). Cerebral hemorrhage and softening. Paralysis: without specified cause. Diseases of the heart. Diseases of the heart. Diseases of the arteries, atheroma, aneurysm, etc. Bronchitis. Pneumoma (all forms). Respiratory diseases other than bronchitis and pneumonia (all forms). Diarrhea and enteritis (total). Diarrhea and enteritis (under 2 years). Diarrhea and enteritis (2 years and over). Appendicitis and typhitis. Hernia, intestinal obstruction. Currhesis of the liver. Nephritis. Puerperal septicemia. Puerperal causes other than puerperal septicemia. Congenital malformations and diseases of early infancy. Suicide Homicide Accidental and unspecified external causes (total). Burns (conflagration excepted). Accidental drowning. Accidental falls. Mine accidents. Machinery accidents. Railroad accidents. Railroad accidents. Street-car accidents Automobile accidents ³ Lipiries by vehicles other than railroad cars, street cars, and automobiles ⁴	4, 548 2, 347 16, 453 3, 360 91, 991 17, 6671 22, 278 7, 207 97, 403 8, 998 34, 482 27, 566 6, 480 77, 653 77, 653 12, 061 8, 420 75, 745 6, 895 6, 490 2, 591 12, 955 6, 490 1, 623 11, 528	15, \$11 86, 754 4,074 2,352 17,357 3,652 87,707 170,033 22,085 8,515 105,680 9,550 38,703 31,444 7,259 14,345 10,211 7,927 87,378 87,626 11,287 7,878 74,131 6,508 2,578 74,131 6,508 2,578 74,131 6,508 2,578 74,131 6,508 2,578 74,131 6,508 2,578 74,131 6,508 2,578 74,131 6,508 2,578 12,378 2,204 7,1757 1,757	162.0 6 4 2 2 4 6 4 2 2 6 4 4 5 2 7 7 8 9 8 9 2 8 7 7 8 9 8 9 2 8 7 7 8 9 8 9 2 8 7 7 8 9 8 9 2 8 7 7 8 9 8 9 2 8 7 7 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8	16.3 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4
automobies * Excessive heat (burns excepted) Other external causes All other defined causes Unknown or ill-defined causes	16,878 169,646	1, 806 529 16, 662 107, 402 16, 638	1.7 0.4 17.0 110.7 17.7	1.9 0.5 17.2 110.7 17.2

Includes tabes dorsalis (locomotor ataxia) and general paralysis of the insane.
 Does not include deaths from collisions with steam and street cars.
 Includes airplane, balloon, and motor-cycle accidents.

DEATHS DURING WEEK ENDED DECEMBER 19, 1925

Summary of information received by telegraph from industrial insurance companies for week ended December 19, 1925, and corresponding week of 1924. (From the Weekly Health Index, December 22, 1925, issued by the Bureau of the Census, Department of Commerce)

	Week ended Dec. 19, 1925	Corresponding week, 1924
Policies in force	62, 410, 497	57, 951, 439
Number of death claims.	12, 148	11, 548
Death claims per 1,000 policies in force, annual rate	10. 1	10.4

Deaths from all causes in certain large cities of the United States during the week ended December 19, 1925, infant mortality, annual death rate, and comparison with corresponding week of 1924. (From the Weekly Health Index, December 22, 1925, issued by the Bureau of the Census, Department of Commerce)

	Weck on	ded Dec. 1925	Annual death rate per	Deaths 1 3	Infant mortal.ty rate	
City	Total dcaths	Death rate ¹	1,000 corre- spending week, 1924	Week ended Dec. 19, 1925	Corresponding week, 1921	week ended Dec. 19, 1925 ²
Total (65 cit.cs)	7, 112	13. 0	13. 2	769	868	8 63
Akron Al. my 4 Al. my 4 Al. my 4 Al. my 4 Al. min 5 Al. min 6 Colored Britimore 4 White Colored Britimore 8 Briningham White Colored Briningham White Colored Boston Bridgeport Buffalo Cambridge Camden Chicago 4 Cincinnati Cieveland Columbus Dallas White Colored Denver Des Moines Detroit Duluth El Paso Erie Fall River 4 Filmt Fort Worth White Colored Grand Rapids Honston White Colored Grand Rapids Honston White Colored Indianapolis White Colored Chored Chorston White Colored Chored Chorston White Colored Chored Chorston White Colored Chored Kansis City, Kans White Colored Kansis City, Kans White Colored Kansis City, Kans White Colored Kansis City, Mo Los Anueles	40 122 134 34 204 44 43 204 44 43 33 145 30 70 139 184 61 10 79 22 24 25 26 41 10 10 10 10 10 10 10 10 10 1	13. 0 22. 7 13. 4 (5) 15. 4 13. 7 14. 4 12. 2 17. 7 10. 2 12. 1 16. 4 11. 3 10. 3 (6) 11. 5 11. 4 11. 2 7. 6 10. 3 (7) 15. 5 15. 5	13. 2 14. 1 16. 4 14. 2 13. 5 11. 1 12. 8 15. 6 12. 7 14. 8 13. 14. 7 13. 0 13. 4 14. 6 8. 1 14. 0 14. 0	769 3 3 3 15 11 1 2 2 3 16 20 0 6 4 8 0 8 17 7 3 3 3 18 8 16 2 2 7 7 0 4 5 5 1 1 5 6 6 5 1 1 5 6 6 5 1 1 7 5 8 8 5 5 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5	868 6 3 12 31 12 31 6 17 1 5 100 100 3 44 5 6 6 2 2 6 4 1 1 1 1 1 1 1 1 1 1 1 1 1	863 33 655 40 64 40 64 81 100 64 71 101 75 28
Louisville White Colored Lovel Lynn Memphis White Colored	227 79 64 15 40 27 71 32 39	15.9 (6) 17.9 13.4 21.2	12,3 13.1 12.1 28.1	651758853	4 1 7	50 48 68 121 120
Milwaukee Minneapolis Nashville 4 White Colored	90 116 39 20 19	9. 4 14. 2 14. 9	10. 1 12. 4 18. 6	11 11 1 1 0	20 10 3	51 59

¹ Annual rate per 1,000 population.
² Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1924. Cities left blank are not in the registration area for births.

estimated births for 1924. Cities left blank are not in the registration area for births.

* Data for 59 cities.

* Deaths for week ended Friday, Dec. 18, 1925.

* In the cities for which deaths are shown by color, the colored population in 1920 constituted the following per cents of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38. Richmond 32, and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended December 19, 1925, infant mortality, annual death rate, and comparison with corresponding week of 1924. (From the Weekly Health Index, December 22, 1925, issued by the Bureau of the Census, Department of Commerce)—Continued

	Week end 19, 1		Annual death rate per	Deaths 1 y	s under ear	Infant mortality rate
City	Total deaths	Death rate	1,600 corre- sponding week, 1924	Week ended Dec. 19, 1925	Corre- sponding week, 1924	week ended Dec. 19, 1925
New Bedford New Haren New Orleans. White	25 38 155 94	9 6 11. 1 19. 5	9. 4 12. 7 18. 0	2 3 12 7	5 4 13	33 39
Colored New York Bronx Borough Brooklyn Borough Manhattan Borough	1, 390 180 459 599	(5) 11. 9 30 4 10. 7 13. 8	12. 8 9. 8 12. 3 14. 5	5 142 16 47 62	169 17 65 68	57 55 48 65
Queens Borough Richmond Borough Newark, N. J Norfolk White	108 44 114 39 20	9. 8 17. 1 13. 1	12. 8 14. 0 11. 6	14 3 11 4 3	16 3 16 5	65 54 50 74 88
Colored Oakland Oklahoma City Omaha Paterson	19 54 26 64 31	(5) 11. 1 15. 8 11. 4	13. 3 10. 0 16. 7	5 4 9 2	10 3 3 3 3	49 57 92 34
Philadelphia. Pittsburgh Portland, Oreg Providence Richmond	553 162 61 72 53	14. 6 13. 4 11. 3 15. 3 14. 8	14. 2 12. 4 10. 9 16. 7 16. 2	55 18 2 2 2 3	71 14 2 8 8	69 60 20 16 36
White Colored Rochester St. Louis. St. Paul	28 25 84 229 57	(5) 13. 2 14. 5 12. 1	11.9 12.5 11.3	3 6 21 4	11 12 8 4	108 48
Sait Lake City 4 San Antonio San Diego San Francisco Schenectady	29 56 42 128	11. 5 14. 7 20. 7 12. 0 7. 7	11.8 17.4 18.4 14.7 8.3	3 10 4 8 4	16	45 94 46 112
Seattle Somerville Spokane Springfield, Mass	78 29 31 28	14.8 14.8 9.6 12.5	7.3 12.5 10.2 10.5	3 3 7	1 8 2 4 2 3 5 2	39 79 67 44 88
Syracuse Tacoma Toledo. Trenton Washington, D. C	20 55 45 124	10.0 10.0 17.8 13.0	11. 6 10. 2 18. 9 14. 8	0 7 8 16	3 7 10 14	131 90
White. Colored Waterbury Wilmington, Del Worcester	54 22 31 42	(5) 13.2 11.0	8.7 9.6	7 4 2 3	4 2 0 4	73 128 86 45 34
Youngstown	18 34	8.4	8. 6 13. 8	0 4	5	49

⁴ Deaths for week ended Friday, Dec. 18, 1925. ⁵ In the cities for which deaths are shown by color, the colored population in 1929 constituted the following per cents of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Noriclk 38, Richmond 32, and Washington, D. C., 25.

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

CURRENT WEEKLY STATE REPORTS

These reports are preliminary and the figures are subject to change when later returns are received by the

Reports for Week Ended December 26, 1925

ALABAMA	1	CALIFORNIA			
	ses				
Chicken pox	19		Dases		
Dengue	1	North Sacramento	. 1		
Diphtheria	24	Pittsburg			
Influenza	74	Red Bluff	. 1		
Maloria	6	Chicken pox	. 133		
Measles	1	Diphtheria	65		
Mumps	23	Influenza	74		
Pellagra	2	Lethargic encephalitis:			
Pneumonia	70	Fiesno County	. 1		
Scarlet fever	10	Mensles.			
Emalipox	5	Munips			
Tetanus.	1	Poliomyelitis:	-		
Tuberculosis	23	Madera	. 1		
Typhoid fever	7	San Fernando	. 1		
Whooping cough	13	Scarlet fever	82		
		Smallpoy:			
ARIZONA		Los Angeles County	_ 5		
Chicken pox	1	Oakland			
Mumps	1	Sacramento	- 5		
Scarlet fever	7	Scattering	14		
Tuberculosis	10	Typhoid fever	10		
Typhoid fever	1	Whooping cough	_ 33		
		11 nooivag oodga	. 00		
ARKANSAS		COLORADO			
Cerebrospinal meningitis.	1	Chicken pox	_ 38		
Chicken pox	8	Diphtheria	_ 27		
Diphtheria	7	Dysentery	- 1		
Influenza	35	Measles	. 7		
Malaria	11	Mumps	- 4		
Mumps	1	Paratyphoid fever			
Pellagra	в	Pneumonia	_ 4		
Scarlet fever	5	Scarlet fever			
Smallpox	2	Smellpor			
Trachoma	3	Tuberculesis.			
Tuterodosis	6	Typheid fever			
Typhoid fever	8	Who ping cough			

CONNECTICUT	_ {	ILLINOIS—continued	
	ises	Sanufat former	
Cerebrospinal meningitis	2		ases
Chicken pox	61 24	Cook County	
Diphtheria. German measles.	7	Kane County Livingston County	21
Influenza	6	Madison County	16 10
Measles	- 1	Peoria County	12
Mumps	4	Scattering	99
Pneumonia (broncho)	16	Smallpox.	38
Preumonia (lobar)	45	St. Clair County	10
Scarlet fever	56	Scattering	26
Septic sore throat	2	Tuberculosis	
Tuberculosis (pulmonary)	12	Typhoid fever:	
Typhoid fever.	4	Franklin County	13
Whooping cough	31	Scattering	35
• • •		Whosping cough	73
DELAWARE	_		
Anthrax	1	INDIANA	
Chicken pox	1	Cerebrospinal meningitis	2
Diphtheria	1	Chicken pox	49
Measles.		Diphtheria	
Pneumonia	7	Influenza	
Tuberculosis	4	Measles	74
FLORIDA		Pneumonia	21
Chicken pox	9	Scarlet fever	156
Dengue	1	Smallpox	61
Diphtheria	25	Tuberculosis	22
Influenza	19	Typhoid fever	8
Malaria	31	Whooping cough	43
Measles	3		
Mumps	3	IOWA	
Pneumonia	80	Cerebrospinal meningitis	1
Scarlet fever	2	Chicken pox	
Smallpox		Diphtheria	24
Tetanus	13	German measles	1
Tuberculosis	94 11	Measles	36
Typhoid fever Whooping cough		Mumps	3
	-	Pneumonia	. 1
GEORGIA		Poliomyelitis	2
Chicken pox		Scarlet fever	51
Diphtheria	15	Smallpox	
Dysentery		Typhoid fever	
German measles	1	Whooping cough	6
Influenza		KANSAS	
Malaria	5	Anona	
Measles	2	Cerebrospinal meningitis:	
Mumps	_	Abilene	1
Pneumonia	61	Kansas City	
Scarlet fever	6	Chicken pox	
Septic sore throat		Diphtheria	
Smallpox	2	Influenza	2
Tuberculosis	2	Measles	15
Typhoid fever	2	Mumps.	2
Whooping cough	4	Pneumonia	29
ILLINOIS		Poliomyelitis: Eudora	1
	7	Hayes	1
Cerebrospinal meningitis—Jefferson County	1	Kansas City	1
Diphtheria: Cook County	64	Scarlet fever	
Scattering	21	Septic sore throat	1
Influenza		Smallpox	5
Lethargic encephalitis—Cook County	1	Tuberculosis.	48
Measles	-	Typhoid fever	
Pneumonia		Whooping cough	
			7

LOUISIANA	1	MINNESOTA	
Co	esa		a es
Diphtheria	11		114
Influenza	11	Diphtheria	51
Malaria	7	Measles	6
Pneumonia	35	Pneumonia	6
Scarlet fever.	8 39	Poliomyelitis	1
Smallpox	28	Scarlet fever	6
Tuberculesis	3	Smallpox Tuberculosis	33
Typhoid fever	ย	Typhoid fever	1
HAINE		Whooping cough	6
Chicken pox	25		٠
Diphther:a	5 1	MISSISSITPI	_
German measles.	5	Diphtheria	8 9
Influenza	3	Scarlet fever	3
Measles	20	Smallpox	7
Mumps	20	Typhoid fever	'
Pneumonia	33	MISSOURI	
Scarlet fever	1	(Exclusive of Kansas City)	
Septic sore throat	3	Cerebrospinel meningitis	1
Tuber culosis	6	Chicken pox	51
Typhoid fever	-	Diphtheria	57
Vincents angina		Epidemic sore throat	2
Whooping cough	1-	Leprosy	1
MARYLAND 1	٠.	Measles.	2
Chicken pox		Mumps	
Diphtheria		Scarlet fever	
German measles.	2	Sinalipox	4
Influenza		Tetanus	1
Malatia	1	Tuberculosis	15
Measles		Typhoid fever	
Mumps		Whooping cough	4
Ophihalmia neonatorum		MONTANA	
Pneumonia (broncho)	40		
The commencie (Johan)			
Pneumonia (lobar)	55	Cerebrospinal meningitis	
Searlet fever	55 50	Cerebrospinal meningitis	18
Searlet fever	55 50 26	Cerebrospinal meningitis Chicken pox Diphtheria	18 5
Scarlet fever Tuberculosis Typhoid fever	55 50 26 13	Cerebrospinal meningitis	18 5 57
Scarlet fever	55 50 26 13	Cerebrospinal meningitis Chicken pox Diphtheria Mumps Poliomyelitis	18 5 57 1
Scarlet fever	55 50 26 13 26	Cerebrospinal meningitis Chicken pox Diphtheria Mumps Poliomyelitis Scarlet fever	18 5 57 1
Scarlet fever	55 50 26 13 26	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever Smallpox	18 5 57 1 13 2
Scarlet fever	55 50 26 13 26 2	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever Smallpox Tuberculosis	18 5 57 1 13 2 2
Scarlet fever	55 50 26 13 26 2 23 138	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever	18 5 57 1 13 2 2
Scarlet fever	55 50 26 13 26 2 138 3 46	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	18 5 57 1 13 2 2
Scarlet fever	55 50 26 13 26 2 138 3 46 14	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever	18 5 57 1 13 2 2
Scarlet fever	55 50 26 13 26 2 138 3 46 14 12	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever. Smallpox Tuberculosis. Typhoid fever. Whooping cough NEBRASKA Cerebrospinal meningitis.	18 5 57 1 13 2 2 2 2 10
Scarlet fever	55 50 26 13 26 2 138 3 46 14 12 654	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet forer Smallpox. Tubcreulosis Typhoid fever Whooping cough NEBRASKA Cerebrospinal meningitis Chicken pox.	18 5 57 1 13 2 2 2 10
Scarlet fever	55 50 26 13 26 2 138 3 46 14 12 654 22	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever. Whooping cough NEBRASKA Cerebrospinal meningitis Chicken pox. Diphtheria	18 5 57 1 13 2 2 2 2 10
Scarlet fever Tuberculosis Typhoid fever Whooping cough MASSACHUSETTS Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum	55 50 26 13 26 2 138 3 46 14 12 654 22 5	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NEBRASKA Cerebrospinal meningitis Chicken pox Diphtheria Influenza	18 5 57 1 13 2 2 2 2 10
Scarlet fever	55 50 26 13 26 2 138 3 46 14 12 654 22 5	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever. Smallpox. Tuberculosis. Typhoid fever Whooping cough NEBRASKA Cerebrospinal meningitis Chicken pox. Diphtheria Influenza Mumps.	18 5 57 1 13 2 2 2 2 10 11 12 7 1 1 1 1
Scarlet fever	55 50 26 13 26 2 138 3 46 14 12 654 22 5 5 58	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhold fever Whooping cough NEBRASKA Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mumps Pneumonia	18 5 57 1 13 2 2 2 2 10 11 12 7 7 1 1 6 6
Scarlet fever	55 50 26 13 26 22 138 3 46 14 12 654 22 5 5 58 101	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever Smallpox Tubcreulosis Typhoid fever Whooping cough NEBRASKA Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mumps Pneumonia Scarlet fever	18 5 57 1 13 2 2 2 2 10 112 7 7 1 1 6 6 19
Scarlet fever Tuberculosis Typhoid fever Whooping cough MASSACHUSETTS Cerebrospinal meningitis Chicken pox Conjunctivitis (suppurative) Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia (lobat). Scarlet fever Tuberculosis (pulmonary) Tuberculosis (other forms)	55 50 26 13 26 2 2 138 3 46 14 12 22 5 5 8 101 42 7	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever. Whooping cough NEBRASKA Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mumps Pneumonia Scarlet fever Smallpox	18 5 5 7 1 13 2 2 2 2 10 11 12 7 1 1 6 19 21
Scarlet fever	55 50 26 13 26 2 2 138 3 46 14 12 654 22 5 5 8 101 42 7	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever Smallpox Tubcreulosis Typhoid fever Whooping cough NEBRASKA Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mumps Pneumonia Scarlet fever	18 5 5 7 1 13 2 2 2 2 10 11 12 7 1 1 6 19 21
Scarlet fever	55 50 26 13 26 2 2 138 3 46 14 12 654 22 5 5 8 101 42 7	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomylitis Scarlet fever. Smallpox. Tuberculosis. Typhoid fever Whooping cough NEBRASRA Cerebrospinal meningitis Chicken pox. Diphtheria Influenza Mumps. Pneumonia Scarlet fever Smallpox. Whooping cough	18 5 57 1 13 2 2 2 2 10 11 12 7 7 1 1 6 6 19 21 2 2
Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough MASSACHUSETTS Cerebrospinal meningitis. Chicken pox. Conjunctivitis (suppurative) Diphtheria. German measles. Influenza. Measles. Mumps. Ophthalmia neonatorum Pneumonia (lobai) Scarlet fever. Tuberculosis (pulmonary) Tuberculosis (other forms) Typhoid fever. Whooping cough	55 50 26 13 26 2 138 3 46 14 12 654 22 5 58 101 42 7 5 154	Cerebrospinal meningitis Chicken pox. Diphtheria. Mumps Poliomyelitis. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough NEBRASKA Cerebrospinal meningitis. Chicken pox. Diphtheria. Influenza. Mumps. Pneumonia. Scarlet fever. Smallpox. Whooping cough	18 5 57 1 13 2 2 2 2 2 10 10 11 12 12 1 1 1 1 1 1 1
Scarlet fever	55 50 26 13 26 2 2 138 3 46 14 12 654 22 5 5 8 101 47 5 154 75	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever Smallpox. Tuberculosis Typhoid fever Whooping cough NEBRASKA Cerebrospinal meningitis Chicken pox. Diphtheria Influenza Mumps Pneumonia Scarlet fever Smallpox Whooping cough NEW JERSEY Chicken pox Diphtheria	18 5 57 1 13 2 2 2 2 2 10 10 11 12 12 1 1 1 1 1 1 1
Scarlet fever Tuberculosis Typhoid fever Whooping cough MASSACHUSETTS Cerebrospinal meningitis Chicken pox Conjunctivius (suppurative) Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia (lobat) Scarlet fever Tuberculosis (pulmonary) Tuberculosis (other forms) Typhoid fever Whooping cough MICHIGAN Diphtheria Measles	55 50 26 13 26 2 138 3 46 14 12 654 22 5 58 101 42 7 5 154 154 174	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever Smallpox. Tubcreulosis Typhoid fever Whooping cough NEBRASKA Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mumps Pneumonia Scarlet fever Smallpox Whooping cough NEW JERSEY Chicken pox Diphtheria Jone Scarlet fever Smallpox New Jersey Diphtheria Diphtheria	18 5 57 1 13 2 2 2 2 10 11 12 7 1 1 6 6 19 21 2 2 11 6 6 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Scarlet fever	55 50 26 13 26 2 138 3 40 14 12 654 22 2 5 58 101 42 7 5 154 174 174 174	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever. Smallpox. Tuberculosis. Typhoid fever Whooping cough NEBRASRA Cerebrospinal meningitis Chicken pox. Diphtheria Influenza Mumps. Pneumonia Scarlet fever Smallpox Whooping cough	18 5 57 1 13 2 2 2 2 10 11 12 7 7 1 1 6 6 19 21 2 2 11 1 6 5 1 1 5 5
Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough MASSACHUSETTS Cerebrospinal meningitis. Chicken pox. Conjunctivitis (suppurative). Diphtheria. Measles. Influenza. Measles. Mumps. Ophthalmia neonatorum Pneumonia (lobai). Scarlet fever. Tuberculosis (pulmonary). Tuberculosis (other forms). Typhoid fever. Whooping cough. MICHIGAN Diphtheria. Measles. Pneumonia. Scarlet fever.	55 50 26 13 26 2 138 3 40 14 12 654 22 58 101 42 7 5 154 174 174 141 174 174 174 174 17	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever. Smallpox Tuberculosis Typhoid fever Whooping cough NEBRASKA Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mumps Pneumonia Scarlet fever Smallpox Whooping cough NEBRASKA Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mumps Pneumonia Scarlet fever Smallpox Whooping cough NEW JERSEY Chicken pox Diphtheria Dysentery Influenza Measles	18 5 5 5 7 1 13 2 2 2 2 2 10 11 12 7 7 1 1 6 9 21 2 2 11 6 5 1 5 308
Scarlet fever	55 50 26 13 26 2 138 3 46 14 12 654 22 5 58 101 42 7 5 154 174 141 141 141 141 141 141 14	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhold fever Whooping cough NEBRASKA Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mumps Pneumonia Scarlet fever Smallpox Whooping cough NEW JERSEY Chicken pox Diphtheria Linfluenza Mumps Pneumonia Scarlet fever Smallpox Whooping cough NEW JERSEY Chicken pox Diphtheria Dysentery Linfluenza Measics Pneumonia	18 5 5 7 1 13 2 2 2 2 10 11 12 17 7 1 1 6 6 19 2 1 2 1 1 6 5 5 308 82
Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough MASSACHUSETTS Cerebrospinal meningitis. Chicken pox. Conjunctivitis (suppurative) Diphtheria. German measles. Influenza. Measles. Mumps. Ophthalmia neonatorum Pneumonia (lobai) Scarlet fever. Tuberculosis (pulmonary) Tuberculosis (pulmonary) Tuberculosis (other forms) Typhoid fever. Whooping cough MICHIGAN Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis.	55 50 26 13 26 2 138 3 46 14 12 654 22 58 101 42 7 5 174 141 217 217 217 22 36 23 24 25 26 27 27 28 29 20 20 20 20 20 20 20 20 20 20	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever Smallpox. Tuberculosis Typhoid fever Whooping cough NEBRASKA Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mumps Pneumonia Scarlet fever Smallpox Whooping cough NEW JERSEY Chicken pox Diphtheria Joys ntery Influenza Mumps Pneumonia Scarlet fever Smallpox NEW JERSEY Chicken pox Diphtheria Dysentery Influenza Measles Pneumonia Scarlet fover	18 5 5 7 1 13 2 2 2 2 10 11 12 7 7 1 1 6 6 19 21 1 6 5 1 1 5 308 82 82 96
Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough MASSACHUSETTS Cerebrospinal meningitis. Chicken pox. Conjunctivitis (suppurative). Diphtheria. German measles. Influenza. Measles. Mumps. Ophthalmia neonatorum. Pneumonia (lobai). Scarlet fever. Tuberculosis (pulmonary). Tuberculosis (pulmonary). Typhoid fever. Whooping cough. MICHIGAN Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever.	55 50 26 13 26 2 138 3 40 11 12 654 22 5 5 8 101 42 7 5 154 174 174 174 174 174 174 174 17	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever. Smallpox. Tuberculosis Typhoid fever Whooping cough NEBRASEA Cerebrospinal meningitis Chicken pox. Diphtheria Influenza Mumps Pneumonia Scarlet fever Smallpox. Whooping cough NEBRASEA Crebrospinal meningitis Chicken pox Diphtheria Influenza Mumps Pneumonia Scarlet fever Smallpox NEW JERSEY Chicken pox Diphtheria Dysentery Influenza Measles Pneumonia Scarlet fever Typhoid fever	18 5 57 1 13 2 2 2 2 10 11 12 7 1 1 6 5 19 21 1 6 5 308 8 26 2 2
Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough MASSACHUSETTS Cerebrospinal meningitis. Chicken pox. Conjunctivitis (suppurative) Diphtheria. German measles. Influenza. Measles. Mumps. Ophthalmia neonatorum Pneumonia (lobai) Scarlet fever. Tuberculosis (pulmonary) Tuberculosis (pulmonary) Tuberculosis (other forms) Typhoid fever. Whooping cough MICHIGAN Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis.	55 50 26 13 26 2 138 3 40 11 12 654 22 5 5 8 101 42 7 5 154 174 174 174 174 174 174 174 17	Cerebrospinal meningitis Chicken pox. Diphtheria Mumps Poliomyelitis Scarlet fever Smallpox. Tuberculosis Typhoid fever Whooping cough NEBRASKA Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mumps Pneumonia Scarlet fever Smallpox Whooping cough NEW JERSEY Chicken pox Diphtheria Joys ntery Influenza Mumps Pneumonia Scarlet fever Smallpox NEW JERSEY Chicken pox Diphtheria Dysentery Influenza Measles Pneumonia Scarlet fover	18 5 57 1 13 2 2 2 2 10 11 12 7 1 1 6 5 19 21 1 6 5 308 8 26 2 2

¹ Week ended Friday.

NEW MEXICO	1	PENNSYLVANIA	
	ases	c	as es
Chicken pox	24	Cerebrospinal meningitis:	
Diphtheria	1 2	Blakely	1
Mumps Pneumonia	5	ErieChicken pox	1
Puerperal septicemia	1	Diplitheria.	030
Scarlet fever	9	Etie	10
Tuberculosis	14	Philadelphia	78
Typhoid fever	6	Pittsburgh	19
Whooping cough	25	Scattering	
NEW YORK		German measles	17
NEW TORK		Impetigo contagiosa	24
(Exclusive of New York City)		Leprosy	1
Cerebrospinal meningitis	1	Lethargic encephalitis:	
Diphtheria	51	Philadelphia	1
Influenza	12	Measles	
Measles	226	Mumps	
Pneumonia	176	Pneumonia Poliomyelitis	84
Poliomyelitis	1	Scables	1 19
Scarlet fever		Scarlet fever:	19
Typhoid fever		Philadelphia	66
Whooping cough	132	Pittsburgh	
NORTH CAROLINA		Scranton	13
Chicken pox	63	Scattering	301
Diphtheria		Tuberculosis	128
Measles		Typhoid fever	
Ophthalmia neonatorum	1	Whooping cough	196
Scarlet fever	44	RHODE ISLAND	
Smallpox	3	Chicken pox	13
Typhoid fever		Diphthena	3
Whooping cough	24	Influenza	6
OKLAHOMA		Measles.	
(Exclusive of Tulsa and Oklahoma City)		Providence.	
•		Scattering	
Chicken pox	22	Mumps Ophthalmia neonatorum	
Diphtheria:		Pneumonia.	
Tillman		Scarlet fever	
Scattering		Tuberculosis	
Measles	5	Whooping cough	
Pneumonia	72		
Scarlet fever	29	SOUTH DAKOTA Chicken pox	17
Smallpox:			
			•
Caddo	10	Diphtheria	
Scattering	2	Diphtherin	48
Scattering Typhoid fever	2 30	Diphtherin Mumps Pneumonia	48 1
Scattering	2	Diphtherin	48 1 72
Scattering Typhoid fever	2 30	Diphtheria Mumps Pneumonia Scarlet fever Smallpox Typhoid fever	48 1 72 3
Scattering Typhoid fever Whooping cough OREGON	2 30	Diphtheria Mumps Pneumonia Scarlet fever Smallpox Typhoid fever	48 1 72 3
Scattering	2 30 25	Diphtherin Mumps Pneumonia Scarlet fever Smallpox	48 1 72 3
Scattering Typhoid fever Whooping cough OREGON Cerebrospinal meningitis	2 30 25	Diphtheria Mumps Pneumonia Scarlet fever Smallpox Typhoid fever TENNESSEE	48 1 72 3 1
Scattering Typhoid fever Whooping cough OREGON Cerebrospinal meningitis Chicken pox	2 30 25 1 17	Diphtherin Mumps Pneumonia Scarlet fever Smallpox Typhoid fever TENNESSEE Chicken pox Diphtheria Influenza	48 1 72 3 1 21 7 42
Scattering Typhoid fever Whooping cough OREGON Cerebrospinal meningitis Chicken pox Diphtheria: Portland Scattering	2 30 25 1 17 18 8	Diphtherin Mumps Pneumonia Scarlet fever Smallpox Typhoid fever Chicken pox Diphtheria Influenza Mularia	48 1 72 3 1 21 7 42 2
Scattering Typhoid fever Whooping cough OREGON Cerebrospinal meningitis Chicken pox Diphtheria: Portland Scattering Influenza	2 30 25 1 17 18 8 2	Diphtherin Mumps Pneumonia Scarlet fever Smallpox Typhoid fever TENNESSEE Chicken pox Diphtheria Influenza Mularia Messles	48 1 72 3 1 21 7 42 2 26
Scattering Typhoid fever Whooping cough OREGON Cerebrospinal meningitis Chicken pox Diphtheria: Portland Scattering Influenza. Measles	2 30 25 1 17 18 8 2 3	Diphtherin Mumps Pneumonia Scarlet fever Smallpox Typhoid fever TENNESSEE Chicken pox Diphtheria Influenza Mularia Messles Mumps	48 1 72 3 1 21 7 42 26 1
Scattering Typhoid fever Whooping cough OREGON Cerebrospinal meningitis Chicken pox Diphtheria: Portland Scattering Influenza Mensles Mumps	2 30 25 1 17 18 8 2 3 17	Diphtherin Mumps Pneumonia Scarlet fever Smallpox Typhoid fever TENNESSEE Chicken pox Diphtheria Influenza Mularia Measles Mumps Pellagra	48 1 72 3 1 21 7 42 2 26 1
Scattering Typhoid fever Whooping cough OREGON Cerebrospinal meningitis Chicken pox Diphtheria: Portland Scattering Influenza Measles Mumps Pneumonia	2 30 25 1 17 18 8 2 3 17	Diphtherin Mumps Pneumonia Scarlet fever Smallpox Typhoid fever TENNESSEE Chicken pox Diphtheria Influenza Mularia Measles Mumps Pellagra Pneumonia	48 1 72 3 1 21 7 42 26 1 2 45
Scattering Typhoid fever Whooping cough OREGON Cerebrospinal meningitis Chicken pox Diphtheria: Portland Scattering Influenza Mensles Mumps Pneumonic Scarlet fever	2 30 25 1 17 18 8 2 3 17 13 19	Diphtherin Mumps Pneumonia Scarlet fever Smallpox Typhoid fever Chicken pox Diphtheria Influenza Mularia Measles Mumps Pellagra Pneumonia Scarlet fever	48 1 72 3 1 21 7 42 2 26 1 2 45 21
Scattering Typhoid fever Whooping cough OREGON Cerebrospinal meningitis Chicken pox Diphtheria: Portland Scattering Influenza Mensles Mumps Pneumonia Scarlet fever Smallpox	2 30 25 1 17 18 8 2 3 17 13 19 9	Diphtherin Mumps Pneumonia. Scarlet fever. Smallpox Typhoid fever TENNESSEE Chicken pox Diphtheria. Influenza. Mularia Measles Mumps Pellagra Pneumonia. Scarlet fever. Smallpox	48 1 1 72 8 1 1 21 7 42 2 26 1 2 21 6
Scattering Typhoid fever Whooping cough OREGON Cerebrospinal meningitis Chicken pox Diphtheria: Portland Scattering Influenza Mensles Mumps Pneumonic Scarlet fever Smallpox Tuberculosis	2 30 25 1 17 18 8 2 3 17 13 19	Diphtherin Mumps Pneumonia Scarlet fever Smallpox Typhoid fever TENNESSEE Chicken pox Diphtheria Influenza Mularia Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis	48 1 1 72 8 1 1 21 7 42 2 26 1 2 45 21 6 7
Scattering Typhoid fever Whooping cough OREGON Cerebrospinal meningitis Chicken pox Diphtheria: Portland Scattering Influenza. Mensles. Mumps Pneumonia. Scarlet fever Smallpox Tuberculosis. Typhoid fever	2 30 25 1 17 18 8 2 3 17 13 19 9 8	Diphtherin Mumps Pneumonia Scarlet fever Smallpox Typhoid fever TENNESSEE Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	48 1 72 3 1 21 7 42 2 26 1 2 45 21 6 7
Scattering Typhoid fever Whooping cough OREGON Cerebrospinal meningitis Chicken pox Diphtheria: Portland Scattering Influenza Mensles Mumps Pneumonic Scarlet fever Smallpox Tuberculosis	2 30 25 1 17 18 8 2 3 17 13 19 9 8 4	Diphtherin Mumps Pneumonia Scarlet fever Smallpox Typhoid fever TENNESSEE Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	48 1 72 3 1 21 7 42 2 26 1 2 45 21 6 7

TEXAS	I	WASHINGTON—continued	
Cas		Smallpox: Ca	ases
Chicken pox	9	Yakima County	21
Diphtheria	20	Seattering	19
Influenza	13	Tuberculosis	12
Pneumonia	14	Whooping cough	21
Scarlet fever	17	WEST VIRGINIA	
Smallpox	9	Diphtheria	4
Tuberculosis	7	Scarlet fever	10
Typhoid fever	5	Typhoid fever.	1
Whooping cough	23	WISCONSIN	
UTAH	- 1	Milwaukee:	
UISH	1	Chicken pox	120
Cerebrospinal meningitis:	1	Diphtheria	28
Salt Lake City	1	Measles.	1
Chicken pox	108	Mumps	4
Diphtheria	25	Pneumonia	15
Pneumonia	5	Scarlet fever	6
Scarlet fever	11	Whooping cough	23
Smallpox	1	Scattering:	
Typhoid fever	2	Chicken pox	206
Whooping cough	23	Diphtheria	
	- 1	German measles	
VERMONT	1	Influenza	
Chicken pox	12	Measles	
Diphtheria	3	Mumps	
Measles	4	Pneumonia	
Scarlet fever	7	Poliomyelitis	
Whooping cough	46	Scarlet fever	
WASHINGTON		Smallpox	
		Tuberculosis	
Cerebrospinal meningitis:		Typhoid fever	
Whitman County	1	Whooping cough	128
Chicken pox	91	WYOMING	
Diphtheria	8	Chicken pox	
German measles	8	German measles	
Measles	13	Influenza	. 4
Mumps	23	Measles	. 1
Scarlet fever:		Mumps.	
Seattle	18	Scarlet fever	. 14
Spokane	27	Smallpox	. 5
Scattering	29	Tuberculosis	. 1
Reports for Week	End	led December 19, 1925	
DISTRICT OF COLUMBIA	ases	NORTH DAKOTA	.
			ases
Cerebrospinal meningitis		Chicken pox	
Chicken pox		Diphtheria.	
Diphtheria		German measles	
Influenza		Measles	
Measles.		Mumps.	
Pneumonia		Pneumonia.	
Scarlet fever		Poliomyelitis	. 1
Tuberculosis	. 19	Scarlet fever	
Typhoid fever	. 2	Smallpox	_ 5
Whooping cough	12	Whooping cough	_ 9

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week.

State	Cere- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pella- gra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
November, 1925	3	219	262	137	6	36	5	105	156	134
Colorado		176	4		13		1	90	1	53 5
DelawareFlorida	1	34 141	5 25	60	3	12	2	15 24	0 14	57
Georgia		156	385	99	5	9	5	44	19	110
Illinois	3	584	55	1	682		12	1, 280	19 79	206
Indiana	3	292	82				13	750		.72
IowaLouisiana	2	180 154	91	59	16 6	34	16 9	211 58	39 34	1 25 164
Maryland	i	154	70	2	530	3 1	1	187	34	118
Minnesota		353	3		23		16	859	14	25
Mississippi	1 2	250	2,811	4, 397	183	333	3	77	39	309
Missouri	1	388	52	0	19	0	4	555	10	145
Ohio	2 3	833	44	0	1,076		ō	1, 140	137	187
Oklahoma ² Oregon	4	200 182	525 30	104	9 21	20	5 2	135 218	26 88	322
Rhode Island	Ō	51	8	0	421	0	2	43	0	1 10
Virginia	2	500	1, 102	74	267	12	. 6	396	17	17 10 139

RECIPROCAL NOTIFICATIONS

Notifications regarding communicable diseases sent during the month of November, 1925, to other State health departments by departments of health of certain States

Referred by—	Scarlet	Tuber-	Typhoid
	fever	culosis	fever
Illinois Massachusetts Minnesota New York	1 1	11 31	4 1 4 4

PLAGUE-ERADICATIVE MEASURES IN THE UNITED STATES

The following items were taken from the reports of plague-eradicative measures from the cities named:

Los Angeles, Calif.	
Week ended Dec. 12, 1925:	
Number of rats trapped	2, 249
Number of rats found to be plague infected	0
Number of squirrels examined	334
Number of squirrels found to be plague infected	. 0
Number of mice trapped	3, 942
Number of mice found to be plague infected	. 0
Date of discovery of last plague-infected rodent, Nov. 6, 1925.	*,
Date of last human case, Jan. 15, 1925.	1

Reports not required by law.
 Exclusive of Oklahoma City and Tulsa.

Oakland, Calif.

(Including other East Bay communities)

Week ended Dec. 12, 1925:	
Number of rats trapped	637
Number of rats found to be plague infected	0
Totals:	
Number of rats trapped Jan. 1 to Dec. 12, 1925	77, 866
Number of rats found to be plague infected	21
Number of squirrels examined May 1 to Aug. 1, 1925	7, 277
Number of squirrels found to be plague infected	0
Number of mice trapped Jan. 1 to Dec. 12, 1925	28, 834
Date of discovery of last plague-infected rat, Mar. 4, 1925.	
Date of last human case, Sept. 10, 1919.	

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended December 12, 1925, 36 States reported 1,618 cases of diphtheria. For the week ended December 13, 1924, the same States reported 2,037 cases of this disease. One hundred and two cities situated in all parts of the country and having an aggregate population of about 29,000,000, reported 909 cases of diphtheria for the week ended December 12, 1925. Last year for the corresponding week they reported 1,055 cases. The estimated expectancy for these cities was 1,392 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-three States reported 4,329 cases of measles for the week ended December 12, 1925, and 1,665 cases of this disease for the week ended December 13, 1924. One hundred and two cities reported 2,212 cases of measles for the week this year, and 694 cases last year.

Poliomyelitis.—The health officers of 37 States reported 41 cases of poliomyelitis for the week ended December 12, 1925. The same States reported 58 cases for the week ended December 13, 1924.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-six States—this year, 3,165 cases; last year, 3,380 cases. One hundred and two cities—this year, 1,281 cases; last year, 1,712 cases; estimated expectancy, 1,007 cases.

Smallpox.—For the week ended December 12, 1925, 36 States reported 379 cases of smallpox. Last year for the corresponding week they reported 799 cases. One hundred and two cities reported smallpox for the week as follows: 1925, 119 cases; 1924, 236 cases; estimated expectancy, 53 cases. One death from smallpox was reported by these cities for the week this year—at Los Angeles, Calif.

Typhoid fever.—Four hundred and twenty-two cases of typhoid fever were reported for the week ended December 12, 1925, by 36 States. For the corresponding week of 1924, the same States re-

ported 571 cases of this disease. One hundred and two cities reported 112 cases of typhoid fever for the week this year and 237 cases for the corresponding week last year. The estimated expectancy for these cities was 96 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 95 cities, with a population of more than 28,000,000, as follows: 1925, 789 deaths: 1924, 945.

City reports for week ended December 12, 1925

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1915 is included. In obtaining the estimated expectancy the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

		a	Diphtheria		Influ	enza	7500		Pneu-	
Division, State, and city	Population July 1, 1923, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expec- tancy	Cases re- ported	Cases re- ported	Deaths re- ported	Measles, cases re- ported	Mumps, cases re- ported	monia, deaths re- ported	
NEW ENGLAND										
Maine: Portland New Hampshire: Concord	73, 129 22, 408	1 0	2	0	0	0	1	11	2	
Vermont:				0			_	1		
Barre	1 10, 008 23, 613	0	0 1	ő	0	0	0	0	1 1	
Massachusetts: Boston Fall River Springfield Worcester	770, 400 120, 912 144, 227 191, 927	66 2 14 12	64 5 5 5	16 3 0 2	2 0 1 0	2 0 1 0	143 134 3 239	10 0 0 2	20 4 1 11	
Rhode Island: Pawtneket Providence Connecticut:	68, 799 242, 378	16 0	2 15	5 5	0	0	4 188	0	3 6	
Bridgeport Hartford New Haven	1 143, 555 1 138, 036 172, 967	2 12 35	11 9 4	5 5 2	1 1 0	1 0 0	68 26 9	0 1	1 3 3	
MIDDLE ATLANTIC								-		
New York: Buffalo New York Rochester Syrncuse New Jersey:	536, 718 5, 927, 625 317, 867 184, 511	13 256 18 24	32 207 6 11	11 144 8 3	3 27 0 0	3 12 0 0	1 742 24 2	1 17 0 3	13 139 7 3	
Camden Newark Trenton	124, 157 438, 699 127, 390	5 82 10	6 19 6	6 13 1	0 1 5	0 0 2	10 33 2	0 1 0	5 6 4	
Pennsylvania: Philadelphia Pittsburgh Reading	1, 922, 788 613, 442 110, 917	211 33 38	77 31 5	69 18 1	0	5 1 0	59 20 2	10 0 1	56 27 1	

¹ Population Jan 1, 1920.

City reports for week ended December 12, 1925—Continued

			Diph	heria	Infin	enza			
Division, State, and city	Population July 1, 1923, estimated	Chick- in 1908, cuses re- ported	Cases, esti- mated expec- tancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
EAST NORTH CENTRAL									
Ohio:	40- 040					_			
Cincinnati Cleveland Columbus Toledo	406, 312 888, 519 261, 082 268, 338	24 68 9 25	18 50 10 17	10 39 2 9	0 0 0	5 2 0 0	209 2 10	0 3 0 0	15 24 6 6
Indiana: Fort Wayne	93, 573	3	5	3	0	0	1	0	0
Indianapolis South Bend Terre Haute Illinois:	342, 715 76, 709 65, 959	24 8 4	16 1 3	11 2 0	0 0 0	0 0 0	16 1 1	3 0 0	16 2 3
Chicago Peoria Springfield Michigan:	2, 896, 121 79, 675 61, 923	128 14 10	191 2 3	61 0 2	11 0 1	7 0 0	27 0 1	9 0 9	47 2 4
DetroitFlint Grand Rapids Wiscensin:	1, 155, 000 117, 968 145, 947	85 3 15	78 15 6	49 3 0	6 0 0	0 0 2	159 1 1	7 0 2	36 1 4
Madison Milwaukee Racine Superior	42, 519 484, 595 64, 893 1 39, 671	22 192 5	28 2 1	0 41 4 0	0 0 0	0	1 0 0	2 32 1 0	0 7 1 0
WEST NORTH CENTRAL	00,011	1	•				J		ű
Minnesota:									
Duluth Minneapolis St. Paul Iowa:	106, 259 400, 125 241, 801	26 75 10	3 27 21	0 21 25	0	0 0	0 0 0	0 0 5	4 7 7
Davenport Des Moines Sioux City Waterloo	61, 262 140, 923 79, 662 39, 667	16 0 8 1	2 7 3 1	0 4 2 0	0 0		0 0 1 1	0 0 1	
Missouri	1	48	l	5	ĺ	2	2		
Kansas City St. Joseph St. Louis North Dakota:	351, 819 78, 232 803, 853	11 47	14 4 67	0 58	3 0 2	0	0 3	0 0 3	6 4
Grand Forks	24, S41 14, 547	7 3	0	0	0	0	0	28	0
South Dakota: Aberdeen Stoux Falls	15, 529 29, 206	3 1	1	0	0		0	40	ō
Nebraska: Lincoln Omaha	53, 761	4 26	2	1 5	0	0	0 2	1	1
Kansas: Topeka	52, 535	26	3	1	0	0	1	1	8
Wichita	79, 261	25	9	0	0	0	1	0	2
Delaware:									
Wilmington	117,728	4	4	7	0	0	0	0	7
Maryland: Baltimore Cumberland Frederick	773, 580 32, 361 11, 301	105 0 1	30 1 0	24 4 2	21 1 0	2 0 0	267 0 0	94 0 0	21 1 0
District of Columbia: Washington		44	22	21	2	0	5	0	15
Virginia: Lyneliburg Norfolk	30, 277 159, 089	9 22	14	6	0	0	0	1 1	1 4
Richmond Roanoke West Virginia:	181, 044 55, 502	15 2	12 4	14 4	0	0	0	23 0	4 4 0
Charleston Huntington Wheeling	.1 106,208	0 0 2	3 2 3	0 1 0	0 0	0 0	0 1 1	0 0	0 5 2

Population Jan. 1, 1920.

City reports for week ended December 12, 1925—Continued

		G1	Dipht	heria	Influ	enza			
Division, State, and city	Population July 1, 1923, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expec- tancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mca- sies, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
SOUTH ATLANTIC—Cont									
North Carolina:		_	_	_	_				
Raleigh Wilmington	29, 171 35, 719	0	2	$\frac{1}{2}$	0	0	0	0	6 2
Winston-Salem South Carolina:	56, 230	0	1 2	0	Ō	0	6	2	4
Charleston	71,245	0	2	5	0	1	0	0	4
Columbia Greenville	39, 688 25, 789	3 0	1	0	0	0	0	3 0	0
Georgia: Atlanta	222, 963	0	6	2	38	0	0	0	12
Brunswick	222, 963 15, 937	4	0	0	0	Ò	0	0	0
Savannah Florida:	89,448	1			10	1	0	0	1
St Petersburg Tampa	24, 403 56, 050	0	$\frac{1}{2}$	0 5	0	0	0	0	3 2
EAST SOUTH CENTRAL	1 20,000	-	_		-		•	1	_
Kentucky:			_	_					l .
Covington Louisville	57,877 257,671	0	3 11	0 5	0	0	0	0	1 6
Tennessee:	172,067	6	12	9	0	1	0	0	1
Memphis Nashville	121, 128	1	4	2	ŏ	2	ő	3	14 5
Alabama Birmingham	195, 301	8	6	5	9	6	1	1	8
Mobile Montgomery	63,858 45,883	0 7	2	0 2	2	0	0	10	1 0
WEST SOUTH CENTRAL	10,000	'	1	_	1	1		1	"
Arkansas:									
Fort Smith Little Rock	30,635	6	2 2	0	0		. 0		
Louisiana: New Orleans	404, 575	2	13	11	14	7	0	1	12
Shreveport	54, 590	2	1	2	10	i	Ö		1
Oklahoma: Oklahoma City	101, 150	. 1	3	0	10	0	0	0	1
Texas: Dallas	177, 274	18	14	9	0	0	0		3
Galveston	46,877 154,970	0	1	0	0	0	0	0	3
Houston San Antonio	184,727	0	4	15 3	0	1	0	0	14 12
MOUNTAIN			1	-					
Montana:	16 027	12	0	0	0	0	. 0	4	0
Billings Great Fulls	16, 927 27, 787 112, 037	8	1	0	0	1 0	1 1	. 82	ŏ
Helena Missoula	1 12,037	0	0	0	0	0	0		0
Idaho: Boise	22,806	1	0	0	0	0	0	0	0
Colorado:	272,031	48	13	8	0	2	1	1	15
Denver Pueblo	43, 519	4	5	3	ŏ	ő	Ö		10
New Mexico: Albuquerque	16, 648	3	1	0	0	0	0	0	0
Arizona: Phoenix	33,899	0		. 0	1	0	0	1	1
Uiab:		1			· I	1	I		
Salt Lake City Nevada:	126, 241	1	3	7	1	0	2	11	2
Reno	12,429	0	0	0	0	0		0	0
PACIFIC					1		ĺ		,
Washington: Seattle	1 315, 685	36		6			. 3	19	
Spokane Tacoma	_ 104, 573	54	5 3	4	0	ō	- 9		2
Oregon: Portland		1	1	1		,	1 /	1	6
California:	273,621	1	ł	1	1		Į	1	1
Los Angeles Sacramento	666, 853) 3	3	42	0	- 0) 2	114
San Francisco	539, 038	48	24	13	4			7	4

¹ Population Jan. 1. 1920.

City reports for week ended December 12, 1925-Continued

	Scarle	t fever	1	Smallpo	х	Tuber-	Ту	phoid fo	Whoop-		
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Coses re- ported	Deaths re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ough, cases re- ported	Deaths, all causes
NEW ENGLAND											
Maine: Portland New Hampshire: Concord	2	0 2	0	0	0	1 0	0	4	0	3	22 9
Vermont:						0	0			1	2
Barre Burlington Massachusetts:	1	1	0	0	0	1	0	0	0	0	7
Boston Fall River	31 2	42 4	0	0	0	5 3	0	0	0	37	223 26
Springfield Worcester Rhode Island:	8 11	5	0	0	0	1 4	0	0	0	13	30 51
Pawtucket Providence Connecticut:	8	0 6	0	0	0	0	0	0	0	7 12	26 68
Bridgeport Hartiord New Haven	6 6 7	9 5 3	0 0 0	0 0 0	0 0 0	0 0 2	0 0 1	1 2 0	0 0 1	0 1 7	34 35 47
MIDDLE ATLANTIC						1					1
New York: Buffalo New York Rochester Syracuse	22 152 13 12	18 109 19 3	1 0 0	0 0 0	0 0 0	1 98 7 2	1 18 1 1	6 31 1 0	0 3 1 0	17 56 11 58	141 1,288 74 35
New Jersey: Camden Newark Trenton	2 16 2	21 10 2	0 0 0	0	0 0 0	12 4	1 2 1	0 2 0	000	9	45 123 40
Pennsylvania: Philadelphia Pittsburgh Reading	57 31 1	89 63 7	0	0	0 0 0	38 9 2	4 1 0	8 0 1	1 0 0	30 12 12	510 182 56
EAST NORTH CENTRAL											
Ohio: Cincinnati Cleveland Columbus Toledo Indiana:	14 33 10 15	11 29 20 10	0 1 0 0	0 0 13 0	0 0 0	9 14 4 6	1 2 0 1	3 1 0 0	1 0 0 0	9 87 3 11	146 195 80 68
Fort Wayne	2 10 3 3	0 16 8 5	0 3 0 0	0 30 3 0	0 0 0	1 4 0 2	1 1 0 0	3 0 0 1	0 0 0 2	0 18 4 0	12 95 12 18
Chicago Peoria Springfield Michigan:	118 6 2	154 6 1	1 0 0	0 0 0	0 0 0	47 0 0	6 0 1	7 0 0	3 0 0	18 1 0	646 11 21
Detroit Flint Grand Rapids Wisconsin:	80 10 8	119 2 19	2 0 1	0 0 0	0 0 0	20 2 0	3 1 1	0 0 2	0 0 0	37 18 27	260 16 33
Madison Milwaukee Racine Superior	30 4 2	12 5 8	0 1 1 1	0 1 0 0	0 0 0 0	0 4 1 1	0 1 0 1	0 0 0	0 0 0 0	5 43 15 0	109 8 7
WEST NORTH CENTRAL		- ,	,			,				-	
Minnesota: Dulath Minnespolis St. Paul	4 39 17	18 59 46	1 5 4	0 1 1	0	0 4 8	0 1 1	0 2 1	6 1 0	3 3 7	20 87 70

Pilompary tuberculosis only.

City reports for week ended December 12, 1925—Continued

	Searlet	fever	ŝ	Smallpa	x	.n	Ту	phoid f	ever		
Division, State, and city	Cascs, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	re-	mated	Cases re- ported	Deaths re- ported	Wheop- ing cough, cases re- ported	Deaths, all causes
· WEST NORTH CENTRAL—contd.											
Iowa:	1	4	0	0		1	0	0		0	
Davenport Des Moines	8	6	1	0			0	0		0	
Sioux City Waterloo	3	0 3	1 0	3			0	0		0 2	
Missouri: Kansas City	11	17	0	0	0	9	1	1	0	8	98
St. Jeseph	3	4	0	0	0	1	0	0	0	1	30
St. Louis North Dakota:	33	66	1	0	0	0	3	1	1	3	216
Fargo	2	0	0	0	0	0	0	0	0	7	4
South Dakota:	l	1	0	0		1	0	0		. 0	
Aberdeen Sioux Falls	1	1 5	1	ő	0	0	ő	ŏ	0	Ö	7
Nebraska: Lincoln	2	2	0	0	0	1	0	0	0	14	15
Omaha Kansas:	5	13	2	4	ŏ	î	i	Ŏ	Ŏ	2	52
Topeka Wichita	2 3	2 1	0	0	0	0	0 1	0	0	1 1	15 31
SOUTH ATLANTIC											
Delaware:						١.					9.0
Wilmington Maryland:	3	6	Ð	0	0	1	1	3	0	2	36
Baltimore Cumberland	22	18	1 0	0	0	18	1	2 2	0		212 12
Frederick	ĭ	ŏ	O	Ŏ	ŏ	ō	ī	Ō	Ō		1
Dist. of Columbia: Washington	. 20	19	6	0	0	14	4	0	1	27	145
Virginia: Lynchburg	. 1	5	0	0	0	0	0	0	0	1	6
Norfolk Richmond	6	14	0	0	0	4	0	3	0	1	43
Roanoke	i	3	ŏ	ő	ő	õ	i	ő			
West Virginia: Charleston	. 1	6	1	0	0	0	0	0	2	3	27
Huntington		0 2	0	0	O O	I	1	0	0	0	18
Wheeling North Carolina:	1	1					1			ł	1
Raleigh Wilmington	1 0	0	0	0	0	0	0	0	0		10
Winston-Salen South Carolina:		2	1	0	0	5	0	0	0	1	20
Charleston	. 1	0	0	0	0	0	1	0	0	0	
Columbia Greenville	. 0	0		0	0	0					
Georgia:	. 5	0	1	0	0	4	1	1	0	1	69
Brunswick	. 0	0	0	Ŏ	0	0	0	0	0	0	8
Savannah Florida:	1	0	1	j	1	1	1	1	1	1	1
St. Petersburg Tampa	0	0		0	0	3 2	0				
EAST SOUTH CENTRAL											
Kentucky:			1.	_		1 -					
Covington Louisville	2 4	1 5		0	0		0	0			67
Tennessee:	4	6		1	1	1	1			1	
Memphis Nashville	3	2							i j		. 50
Alabama: Birmingham	4	3	0	1	0		2				
Mobile Montgomery	1 0	3	0		0	1			<u> </u>		16
woursomera-	_, U	, 1	, 0		, ,	, ,	, 1	, ,			

City reports for week ended December 12, 1925-Continued

	Scarle	t fever		Smallpo	x	Tuber-	Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, Csti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ough, cases re- ported	Deaths, all causes
WEST SOUTH CENTRAL											
Arkansas: Fort Smith Little Rock Louisiana:	1 2	2 2	0	0			0	0		0	
New Orleans Shreveport Oklahoma:	6	7 2	0	0 1	0	15 2	2 1	0 1	0	1	151 22
Oklahoma City Texas:	2	3	0	0	0	4	1	0	0	0	25
Dallas Galveston Houston San Antonio	4 0 2 1	17 0 0 2	0 0 0	0 0 1 0	0 0 0 0	4 0 2 12	2 1 0 0	5 0 0 1	2 0 1 0	16 0 0 0	44 9 56 72
MOUNTAIN											
Montana: Bullings Great Falls Helena Missoula	1 1 0 1	3 4 0 3	0 1 0 1	1 8 0 1	0 0 0	0 0 1 0	0 0 0 0	0 0 0	0 0 0	0 7 0	1 7 7 9
Idaho: Boise	1	0	0	1	0	0	0	0	0	0	1
Colorado: Denver Pueblo	10 2	3 3	4	0	0	9	0	1 0	0	14 0	80 10
New Mexico: Albuquerque	0	5	0	0	0	4	1	0	0	0	11
Arizona: Phoenix Utah:		0		0	0	7		0	0	0	16
Salt Lake City Nevada:	4	1	3	0	0	1	0	1	0	10	18
Reno	0	0	0	0	0	0	0	0	0	0	6
PACIFIC						1					
Washington: Scattle Spokane Tacoma Oregon:	6 5 2	9 27 3	1 4 1	2 3 21	0	1	1 1 0	3 0 0		10 2 1	<u>2</u> i
Portland California:	7	14	6	8	0	0	1	0	1	0	
Los Angeles Sacramento San Francisco .	20 2 12	12 1 15	2 0 1	8 11 0	1 0 0	26 3 10	3 1 2	1 0 1	1 0 0	2 0 4	225 25 176

City reports for week ended December 12, 1925-Continued

		nspinal ingitis	Let' encer	hargie okalitis	Pel	llagra		yelitis paraly	(Infan- Sis)
Division, State, and city	C ases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
NEW ENGLAND									
Maine: Portland	1	0	0	0	0	0	0	0	0
Massachusetts: Boston Springfield	2	1	0	, o	0	0	1	3	o
Rhode Island. Providence	1	. 0	0	0 1	0	0	0	0	0
MIDDLE ATLANTIC									
New York: New York 1	3	1	4	1	0	0	3	1	0
New Jersey: Newark	1	0		0	1	0	0	1	0
Pennsylvania: Philadelphia	0	0	0	1	0	0	0	0	0
EAST NORTH CENTRAL									
Ohio: Cleveland	0	0		1	0	0	0	0	1
Indiana: Indianapolis	0	1	0	0	0	0	0	0	0
Illinois: Chicago	2	1	0	0	0	o	1	0	0
Springfield	1 2	1 2	0	0	0	0	0	0	0
Milwaukee	1	1 -	"	0	"	٥	1	"	
Minnesota:								İ	
Minneapolis St. Paul	1	1 0	0	0		0	0	0	0
Missouil: St. Louis	0	0	0	0	1	0	0	1	1
Nebraska: Lincoln	1	0	1	0	1	0	0	1	
SOUTH ATLANTIC	1 -	ľ	1			"			1
District of Columbia:									
Washington North Carolina:	. 0	0	1	1	1	1	0	. 1	0
Winston-Salem South Carolina:	. 0	0	0	0	1	1	0	0	
Charleston Florida:	. 0	0	0	0	0	1	0	0	(
Tampa	- 0	0	0	0	1	0	0	0	0
EAST SOUTH CENTRAL									
Tennessee: Memphis	. 0	0	0	1	0	0	0	1	
WEST SOUTH CENTRAL									
Louisiana:						1			
New Orleans Texas:	1	0		0	1	0	0	1	' (
Houston San Antonio	- 0	0	0	0	1 0	1	0		. 6
PACIFIC			-						
Washington:	1	. 0	0		. 0	0		0	1 .
Spokane Tacoma	à								0
Oregon: Portland California:	_ 0	C	0	0	0	0	0	1	
Los Angeles San Francisco	4 0	2							
13011 & 1001040000-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		1 "	1 "		0	1	1 '		1

¹ Typhus fever, 2 cases, New York City.

The following table gives the rates per 100,000 population for 103 cities for the 10-week period ended December 12, 1925. The population figures used in computing the rates were estimated as of July 1, 1923, as this is the latest date for which estimates are available. The 103 cities reporting cases had an estimated aggregate population of nearly 29,000,000, and the 96 cities reporting deaths had more than 28,000,000 population. The number of cities included in each group and the aggregate populations are shown in a separate table below:

Summary of weekly reports from cities, October 4 to December 12, 1925-Annual rates per 100,000 population 1

DIPHTHERIA CASE RATES

And the second s	Week ended										
	Oct.	Oct. 17	Oct. 24	Oct. 31	Nov.	Nov. 14	Nov.	Nov. 28	Dec. 5	Dec.	
103 cities	140	154	² 168	3 182	166	174	181	159	4 172	164	
New England. Middle Atlantic. East North Central. West North Central. South Atlantic. East South Central. West South Central. West South Central. Mountain. Pacific.	99 114 164 207 191 97 83 200 107	124 129 174 236 224 97 93 162 110	\$ 97 129 189 259 \$ 268 109 102 372 142	137 149 195 282 228 97 264 3 176 157	97 126 187 267 211 137 199 286 148	127 141 194 240 252 69 213 248 145	144 143 189 226 289 132 176 315 186	104 150 162 178 221 120 181 134 165	124 137 172 280 221 7 122 278 8 361 128	107 139 166 243 205 132 185 172 200	

MEASLES CASE RATES

103 cities	55	70	² 93	3 105	154	174	229	212	4 357	441
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	385 47 26 6 16 11 0 38 12	447 65 25 10 55 6 0 10 29	5 599 87 47 10 5 40 40 14 29	604 110 57 12 59 17 5 20 15	852 159 74 15 154 17 9 38 17	937 171 88 10 232 17 9 47 20	1, 130 256 103 15 289 51 9 29 32	827 239 124 31 353 34 5 10 26	1, 583 339 255 19 552 7 43 5 8 19 58	2, 025 453 307 25 576 23 5 5 38

SCARLET FEVER CASE RATES

103 cities	96	126	2 132	³ 160	170	191	175	205	4 221	231
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central West South Central Mountain Pacific	109	132	8 130	201	271	246	209	214	224	194
	65	75	96	106	111	142	144	149	166	173
	117	151	142	194	167	189	196	220	273	302
	135	276	296	305	384	400	421	454	433	493
	98	137	5 134	193	185	172	123	144	127	162
	132	154	132	80	109	183	137	183	7 177	120
	65	56	42	42	102	121	93	139	111	148
	153	48	115	3 195	172	181	162	172	8 342	162
	107	142	133	148	162	206	197	249	226	194

¹ The figures given in this table are rates per 100,600 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1923.

2 Barre, Vt., and Winston-Saleni, N. C., not included.

3 Helens, Mont., not included.

4 Covington, Ky, and Denver, Colo., not included.

5 Barre, Vt., not included.

6 Winston-Saleni, N. C., not included.

7 Covington, Ky., not included.

5 Deaver, Colo., not included.

Summary of weekly reports from cities, October 4 to December 12, 1925—Annual rates per 100,000 population—Continued

SMALLPOX CASE RATES

					Week e	ended-				
	Oct.	Oct. 17	Oct. 24	Oct. 31	Nov.	Nev. 14	Nov. 21	Nov. 28	Des.	Dec. 12
103 cities	5	8	2 7	3 10	10	8	17	16	4 13	21
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	0 1 10 6 17 0 10 46	0 0 8 0 6 46 0 29 58	57 0 4 4 60 6 0 10 78	0 0 17 27 6 6 0 3 10 46	0 0 12 12 12 29 0 19 49	0 0 13 4 6 34 0 19 44	0 0 32 17 21 11 0 19 78	0 0 32 10 2 11 9 10 99	0 0 14 19 4 7 12 14 5 0 110	0 0 34 19 8 6 9 103 131
	TYP	HOID	FEVE:	R CAS	SE RA	TES				
103 cities	37	36	2 33	³ 26	28	12	17	14	4 20	20
New England Middle Atlantic East North Central West North Central South Atlantic East South Atlantic East South Central West South Central West South Central Facility Pacific	17 31 22 33 55 177 60 124 9	25 28 32 21 70 132 40 48 20	5 15 25 9 33 6 78 160 83 67 32	17 21 16 19 27 109 83 888 20	22 12 19 31 64 183 51 38 9	2 8 9 17 10 46 60 10 3	32 20 3 15 31 34 32 19 6	17 14 4 8 29 23 32 19 15	22 26 8 10 21 7 61 42 8 0	22 22 12 12 23 20 30 10
	IN	FLUE	NZA D	EATE	RAT	ES				
96 cities	3	6	28	9 11	13	12	8	9	4 12	13
New England. Middle Atlantic. East North Central West North Central South Atlantic. East South Central West South Central Mountain Pacific	2 0 15 10	0 5 8 7 2 17 10 0 11	\$ 2 8 9 7 \$ 2 6 20 38 4	12 10 7 11 6 29 41 8 10 10 4	5 14 12 7 18 40 15 10	10 13 2 29 31	2 6 0 2 14 46 10 19	12 8 5 2 10 29 36 10 4	10 10 7 7 18 7 49 41 19 4	10 11 11 51 44 11
	PN	EUMO	NIA I	DEATI	I RAI	ES				
96 cities	66	94	2 96	122	141	138	151	130	4 149	134
New England Middle Atlantic East North Central Wost North Central South Atlantic East South Central West South Central Mountain Pacific	1 70	97 94 94 61 129 103 56 124 83	6 87 104 83 63 6 124 132 117 115 79	112 137 119 99 134 114 138 \$ 78	139 153 125 88 207 166 163 105 95	137 144 137 83 162 177 122 181 114	144 160 146 103 156 240 163 229 91	161 145 100 83 144 194 158 162 102	186 161 149 55 170 7 153 163 162 102	13° 13° 12° 8° 18° 20° 21° 18° 7°

Barre, Vt., and Winston-Salem, N. C., not included.
Helena, Mont., not included.
Covington, Ky., and Denver, Colo., not included.
Barre, Vt., not included.
Winston-Salem, N. C., not included.
Covington, Ky., not included.
Denver, Colo., not included.
Helena, Mont., and Tacoma, Wash., not included.
Tacoma, Wash., not included.

Number of cities included in summary of weekly reports and aggregate population of cities in each group, estimated as of July 1, 1923

Group of cities	Number of cities reporting cases	Number or cities reporting deaths	Aggregate population of cities reporting cases	Aggregate population of cities reporting deaths
Total New England Muddle Atlantic East North Central West North Central South Atlantic East South Atlantic West South Central Mountain Pacific	103	26	28, 977, 311	28, 321, 626
	12	12	2, 098, 746	2, 098, 746
	10	10	10, 304, 114	10, 304, 114
	16	16	7, 135, 899	7, 135, 899
	14	11	2, 515, 330	2, 381, 454
	21	21	2, 542, 498	2, 542, 498
	7	7	911, 856	911, 885
	8	6	1, 124, 564	1, 023, 013
	9	9	540, 445	546, 445
	6	4	1, 797, 830	1, 377, 572

FOREIGN AND INSULAR

THE FAR EAST

Report for week ended November 28, 1925.—The following report for the week ended November 28, 1925, was transmitted by the far eastern bureau of the health section of the League of Nations' Secretariat, located at Singapore, to the headquarters at Geneva:

	Pla	gue	'	,		
Port	۱ .	l	_		_	
	Cases	Deaths	Cases	Deaths	Cases	Deaths
aleutta		0		42	5	
lombay		0		0	0	
fadras		0		1	2 1 0	}
langoon		2		0	1	
Karachi		0		0	0	1
Tegapatam		0		0	1 0 0	
Colombo	1	1	0	Ō	0	l
ingapore	0	2 0	0	0	0	1
ort Swettenham	0	0	0	Ð	0	
enang.	0	0	0	0	0 2 0 0	1
atavia	0	0	0	0	0	ì
oerabaya	0	0	0	0	2	l
amarang elawan Deli	0	0	0	0	0	1
elawan Deli	0	0	0	Ó	0	ł
adang (Sumatra)	0	0	0	0	0	1
abang (Rhio)	0	0	0	0	0	1
lacassar -	0	0	0	0	0	1
ontion k (Borneo)	0	0	0	0	Ö	
orth Borneo)	0	0	0	0	0	1
(Wak)	0	0	0	0	2	
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lon	.0	0	. 0	0	0	İ
, n	0	0	0	0	0	1
; <u>F</u> 1	0	0	0	0		
	0	0	0	0	0	1
gasaki	0	0	0	0	0	
Jkohama	0	0	0	0	0	1
monoseki	0	Ö	0	0	0	1
foji	Ö	0	0	Ò	0	1
Kobe	0	0	2 0		0	
saka	0	0	0	0	0	l
Ceelung	0	0	0	Ò	0	ł
usan	0	0	0	0	O	
airen	0	0	0	0	4	
delaide	0	Ö	0	0	Q	l
risbane	Q	0	Ô	Q.	0	
remantle	Õ	9	0	0	Ů	l
felbourne	0	0	Ŏ	0	0	i
ydney	0	Ŏ	0	Ŏ	ŏ	1
ockhampton	ŭ	0	Ŏ	0	Ň	1
ownsville	0000	Ō	Ŏ	Ŏ.	0	1
ort Darwin	ŭ	0	Ŏ	0	0	ļ
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ort Moresby	Ü	0	0	O.	Ü	1
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ort Said	0	Ö	0	Ö	0	1
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Issowah	0	0	0	0	ő	1
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Ourban	0	0	0	0	ŏ	į.
est London	ŭ	Ö	ő	0	Ö	1
Port Elizabeth	Ň		, ,	ŏ	0	1
Cape Town	0	. 0	0			
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eychelles	i i	0	. 0	0	3 0	

CANARY ISLANDS

Infantile mortality—Las Palmas.—Current vital statistics for the city of Las Palmas under date of November 20, 1925, indicate that 59 per cent of all deaths occurring in that city are of children not more than four years of age. The causes suggested were lack of child welfare service, ignorance on the part of mothers, and general insanitary local conditions. Population of Las Palmas, 66,461, census of 1920.

FINLAND

Communicable diseases—October, 1925.—During the month of October, 1925, communicable diseases were notified in the Republic of Finland as follows: Diphtheria, 135 cases: dysentery, 1; lethorgic encephalitis, 3; paratyphoid fever, 42; scarlet fever, 113; typhoid fever, 133; typhus fever, 1 case.

GUADELOUPE (WEST INDIES)

Influerza—Pointe à Pitre.—Under date of November 16, 1925, influenza, with many fatalities, was reported present at Pointe à Pitre, Island of Guadeloupe, West Indies.

LATVIA

Communicable diseases—October, 1925.—During the month of October, 1925, communicable diseases were reported in the Re Latvia as follows:

Disease .	Casos	Discase	1
Cerc brospinal meningitis	1 67 11 110 11	Relapsing fever Scarlet fever Typhoid fever Typhoid fever Whooping cough	184 96 2 13

SIAM

Epidemic cholera, imported—Bangkok—October, 1925.—Epidemic cholera was reported at Bangkok, Siam, during the period October 4 to 31, 1925. The disease was stated to have been imported by coolie passengers on a vessel which arrived at Bangkok with a number of cases of cholera on board. During the four weeks ended October 31, 60 cases of cholera, with 30 deaths, were reported. The greatest number of cases occurring during one week was 27, with 11 deaths.

Bangkok declared infected.—Under date of October 28, 1925, cholera was declared present in sporadic form at Bangkok. The port was made subject to quarantine restrictions.

VIRGIN ISLANDS

Communicable diseases—November, 1925.—During the month of November, 1925, communicable diseases were notified in the Virgin Islands of the United States as follows:

Island and discuse	Cases	Remarks
St. Thomas and St. John: Charciori Dengue Dysel.ary Gotor het Syphilis Union Sis St. Crion: Gotorinal Lept'ey Sy bilis Tubercalosis	2 1 1 3 2 1 2 1 3 1 3 1	1 imported. Unch surfed. I imported. 1 imported. 155. Necestor Americanus. Secondary. Chrome pulmonary.

CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

Reports Received During Week Ended January 1, 1926 ¹ CHOLERA

Place	Date	Cases	Deaths	Remarks
Indji	Nov. 1-7 Aug. 30-Sept. 19 May-June	19 121 7	11	Oct. 18-24, 1925: Cases, 1,454; deaths, 859.
Rei	Oct. 4-31 Nov. 1-7	60 2 5	30 31	Infection stated to have been imported on vessel.
	Oct	9		Arrived at Bangkok, Sim; 9 cases in coolie passengers.
	PLA	GUE		•
India	Nov. 1-14 Oct. 25-Nov. 7 Oct. 24-Nov. 6	3 4 94	2 1 89	Oct. 18-24, 192; Cales, 1,523; aeaths, 977,
Cherbon Pekalongan Soerabuya Tegal Mauritus Island Russia Senegal	Sept. 27–Oct. 17do. Oct. 11-24. Sept. 27–Oct. 17. Sept. 20–Oct. 17 May-June September, 1925. Aug. 23–Sept. 5	13 6 5 67 22 23	166 42 13 6 5 12 20	,
	SMA	LLPOX		
Argentina: Ros 110 Canada: Ottawa China: Manchuria—	October, 1925 Dec. 6-12	2	1	
DairenShanghal	Oct. 19-25 Oct. 25-Nov. 11	3 4	1 3	

¹ From medical officers of the Public Health Service, American consuls, and other sources. For reports received from June 27 to Dec. 25, 1925, see Public Health Reports for Dec. 25, 1925 The tables of quarantinable diseases are terminated semiannually and new tables begun.

CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER—Continued Reports Received During Week Ended January 1, 1926—Continued

SMALLPOX-Continued

Place	Date	Cases	Deaths	Re marks
France				September, 1925: Cases, 25.
Gitere				Oct. 1-31, 1925: Cases, 10.
India	37		3	Oct. 18-24, 1925: Cases, 1,138
Bombay	NOV. 8-14	5 17	٥	deaths, 263.
Kara di Ranggon	- NOV. 1-14			
	_ Oct. 20-31	1		G 6 40 4005 - O 45- 45-
Iraq		4	4	Sept. 6-19, 1925 : Coses, 41; deaths,
Bagdad		4	4	24.
Įtaly				Aug. 2-Sept. 30, 1925: Cases, 26
Java:	10,10,00	_		
Batavia		.1		
Kraksaan		11		
Malang		2		
North Bantam		4		
Probolingo		1		
South Bantam	- d(1		
Socrabaya		158	18	
Tegal		9	1	
Mexico				July-August, 1925: DeatLis, 905
Peru:	1 .			
Arequipa			1	
Russia				May-June, 1925 : Cases, 1, 336.
Siam.				May-June, 1925: Cases, 1,336. July 12-Sept 5, 1925: Cases, 21;
	į .			deaths, 6.
Switzerland				June 28-Oct. 21, 19225; Cases, 36.
Tunisia:	1			
		3		
Tunis	Nov. 21-30	2		
Tunis	Nov. 21-80		R	
Algeria:	TYPHUS	FEVE	R	
			R	
Algeria: Algers	TYPHUS	FEVE	R	
Algerin: AlgiersArgentina: Rosurio	TYPHUS	FEVE	R	
Algeria: Algiers	TYPHUS October, 1925 Oct. 1-31	FEVE	R	October, 1925; 0
Algeria: AlgiersArgentina: Rosurio	TYPHUS October, 1925 Oct. 1-31	FEVE	R	October, 1925: O
Algeria: Algiers	TYPHUS October, 1925 October, 1925	FEVE	R	October, 1925: 0
Algeria: Algiers Argentina: Rosurio Finlund Latvia	TYPHUS October, 1925 October, 1925	FEVE	R	
Algeria: Algiers	October, 1925 October, 1925	FEVE 2 1 2	R	September, 192
Algeria: Argentina: Argentina: Rosario Finland Latvia Lathuania	October, 1925 October, 1925	FEVE 2 1 2	R	
Algeria: Algiers	October, 1925 Oct. 1-31 October, 1925	FEVE 2 1 2		September, 192
Algeria: Argentina: Argentina: Rosario Finland Latvia Lathuania Mexico Guadalajara Plessico City Palessine:	October, 1925 Oct. 1-31 October, 1925	FEVE 2 1 2		September, 192
Algeria: Algiers Argentina: Rosario Finland Latvia Lathuania Mexico Guadalajara Viexico City	October, 1925 Oct. 1-31 October, 1925	FEVE 2 1 2	1	September, 192
Algeria: Argentina: Argentina: Rosario Finland Latvia Luthuania Mexico Guadalajara Alexico City Palesline: Nažaveth Peru:	October, 1925 Oct. 1-31 October, 1925 October, 1925 Dec. 5-14 Nov. 22-28	2 1 2 12 1	1	September, 192
Algeria: Algiers	October, 1925 Oct. 1-31 October, 1925 October, 1925 Dec. 5-14 Nov. 22-28	2 1 2 12 1	1	September, 192
Algeria: Argentina: Argentina: Rosario Finland Latvia Luthuania Mexico Guadalnima Vexico City Palestine: Nazureth Peru: Arequipà	October, 1925 Oct. 1-31 October, 1925 Dec. 5-14 Nov. 22-28 Nov. 3-9 October, 1925	2 1 2 12 1	1	September, 192* July-August, 192
Algeria: Argentina: Argentina: Rosario Finland Latvia Lithuania Mexico Guadalajara Versico City Palesajne: Nažareth Peru: Arcquipā Rumania	October, 1925 Oct. 1-31	2 1 2 12 1	1	September, 192* July-August, 1922 July, 1925: Casss. 74: dcaths. 9.
Algeria: Argentina: Argentina: Rosario Finland Latvia Latvia Lathaania Mexico Guadalajara Viexico City Palessine: Nazureth Peru: Arequipa Rumania Russia	October, 1925 Oct. 1-31 October, 1925 Dec. 5-14 Nov. 22-28 Nov. 3-9 October, 1925	2 1 2 12 1	1	September, 192* July-August, 192
Algeria: Argentina: Argentina: Rosario Finland Latvia Lathuania Mexico Guadalajara Versico City Palesajne: Nažureth Peru: Arcquipā Rumania	October, 1925	2 1 2 12 1	1	September, 192* July-August, 1922 July, 1925: Cases, 74; deaths, 9. May-June, 1925: Cases, 7,000.

TREASURY DEPARTMENT

PUBLIC HEALTH REPORTS

ISSUED WEERLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

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JANUARY 8 - 1926

SPECIAL ARTICLES =

Results of Smallpox Vaccinations at Lehigh University Reports of the Health Section of the League of Nations



WASHINGTON
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UNITED STATES PUBLIC HEALTH SERVICE

Hugh S. Cumming, Surgeon General

DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg. Gen. B. J. LLOYD, Chief of Division

The Public Health Reports are issued weekly by the United States Public Health Service through its Division of Sanitary Reports and Statistics, pursuant to acts of Congress approved February 15, 1893, and August 14, 1912.

They contain: (1) Current information of the prevalence and geographic distribution of preventable diseases in the United States in so far as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other communicable diseases throughout the world. (2) Articles relating to the cause, prevention, or control of disease. (3) Other pertinent information regarding sanitation and the conservation of the public health.

The Public Health Reports are intended primarily for distribution to health officers, members of boards or departments of health, and those directly or indirectly engaged in or connected with public health or sanitary work. Articles of general or special interest are issued as reprints from the Public Health Reports or as supplements, and in these forms are available for general distribution to those desiring them.

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JANUARY 8, 1926

No. 2

SMALLPOX VACCINATION AS CARRIED OUT AT LEHIGH UNIVERSITY

By STANLEY THOMAS, Associate Professor of Bacteriology, Lehigh University

Since the introduction of smallpox vaccination by Edward Jenner in 1796 the scientific world has universally recognized this procedure as a specific prophylactic measure. For many years the bad results connected with vaccination were a constant source of worry to sanitarians.

With advanced methods of preparation of the virus, and the rigid control which the Government through the Public Health Service maintains in its manufacture, these bad results have been largely eliminated. The realization on the part of the medical profession that vaccination is a surgical operation which needs aseptic control both during and after the inoculation has also been a factor in the elimination of postvaccination infections, or infections caused by the invasion of the wound by bacteria which were not contained in the virus itself.

That there are objections by the public to vaccination to-day may be attributed, to a large extent, to an apparently logical though selfish point of view. This may be summarized somewhat in the question, "Why should I undergo the inconvenience of vaccination when there is no smallpox around?"

The results of laxity in vaccination have been too apparent. For seven years Manila, with a population of a quarter of a million, had been to one death from smallpox. During 1918, when preventative sures became somewhat lax, more than 700 deaths were caused; this disease. To the sanitarian who remembers cases like this, the objections lose much of their force.

The fact remains, however, that the average individual dreads vaccination, and, as he heretofore has not been entitled to a certificate unless he had a "take," similar to that following a first vaccination, he would not willingly undergo the operation.

If, therefore, we could take into account the reasons why a person did not react with a typical Jennerian vaccinia, and base our method of certification upon this knowledge, we would overcome to a large extent the last remaining objection to vaccination.

That a failure to produce typical vaccinia did not necessarily mean that the vaccine used was not of sufficient potency was recognized

73521°--26†----1

by Jenner. The explanation for it, however, remained to Von Pirquet, who showed that an immediate local reaction following vaccination may indicate immunity on the part of the individual and a consequent resistance to the virus. In 1913 Force suggested the use of this immune reaction in reading the degree of immunity possessed by the individual vaccinated.

In the Public Health Reports of September 21, 1923, Dr. S. B. Grubbs, surgeon, United States Public Health Service, at the New York Quarantine Station, described a method of vaccination and certification which would "encourage vaccination, not only to produce immunity but also to measure it, if present, and then to give those who submit, certificates that mean something and that will insure the owners against delay from smallpox quarantine, regardless of exposure to disease."

The idea seemed so excellent to us that we thought of applying the method in vaccinating the student body at Lehigh this fall, with the idea of cooperating in making the procedure one of universal adoption.

The vaccinations were made under the authority of Dr. R. C. Bull, Director of the Lehigh University Student Health Service, and it was only through Doctor Bull's hearty cooperation that this systematic immunization was possible.

Exactly the same technique was followed in each case. The skin of the upper arm was cleansed by rubbing with a swab of cotton saturated with alcohol. This was allowed to dry. With his left hand the operator grasped, from below, the arm of the patient in the region of the insertion of the deltoid muscle. The skin was stretched and three short, parallel scratches were made about three-quarters of an inch apart. The scratches penetrated the epidermis but pains were taken not to draw blood. Care was taken not to include any scar tissue from previous vaccinations in the scratched area. The virus was expelled from the tube on the two outside scratches and rubbed in thoroughly. The middle scratch was not inoculated by served as a control. It received the same degree of trauma as the two inoculated scratches.

While each man was being vaccinated a card was made out giving the serial or case number, his name, class in the University, the date of last successful vaccination, the date of vaccination, operator, manufacturer, lot number, and expiration date of the vaccine used.

The man was then instructed to return for observation in 24 hours, in 48 hours, and each day thereafter until we were supplied with a definite record of what happened in each individual case.

Readings were made in each case as often as the men returned and the reactions noted on their cards.

These reactions fell in general into certain well-defined groups. Examples of these groups are given in Table No. 1. Where there is

nothing indicated on one day, it means that the man did not return for observation on that day.

TABLE	No.	1.— $Examp$	les o	f reactions
-------	-----	-------------	-------	-------------

	Case				Reaction	on day	s after	vaccinat	1011 2				
	No.1	1	2	3	4	5	6	7	8	9	10	11	12
1. Typical Jennerian vac-	346	0	0			T	т		т	т			т
2. Vaccinoids: (a) Early vesicular. (b) Late vesicular. (c) Early nonvesicular. (d) Late nonvesicular.	410 2 286 74	0 8 ++	V ++ ++ s	v	V ++++	+	Sc +++	V +++	+	Se	0	0	
3. Immune reactions: (a) Questionable (b) Very slight (c) Slight (d) Moderate (e) Marked	263 201 166 187 190	S 0 +++		s	+++	S 0	+++		+		0	0	0
4. Irregular reactions 3	1 9 169 351 445 456 475 574	8 0 0 +	0 + P	S 0 + P	++++	0 ++ P 0 ++++		S 0 P +++++	S P	P	0	P P	P

As two lot numbers of vaccine were used, it was thought best in tabulating the results to indicate the relation of the reactions to each lot of vaccine. In Table No. 2 these results are summarized. This table, however, took into account all the men who reported for Of these 619 men 2 had been vaccinated a day or two before coming to college; 75 others did not return for observation. Just what was the result in these 75 cases we can not say. thought best, therefore, to ignore these cases in calculating the percentage of results as shown in Table No. 3.

This procedure is open to criticism on the ground that it may raise the nercentage of "takes"

¹ Case No. 1, vesicular tenth day, scab fifteenth day.
9, papule dried without vesiculation eighteenth day.
169, papule dried without vesiculation sixteenth day.
351, papule dried without vesiculation.
445, papule small but very distinct. Dried without vesiculation fifteenth day.
475, papulation large discrect; no vesiculation.

² First day, 24 hours; second day, 48 hours, etc., after vaccination.

Questionable
Very slight
Slight
+-definite reaction 1 mm. greater than control.
Marked ++++ = well-marked reaction, 5 mm. greater than control.

Pappule but not vesicle.
V=Vesicle.
Sc=scab.

Sc=scab. T=Typical Jennerian vaccinia.

³ Dr. G. W. McCoy, director of the Hygienic Laboratory, U. S. Public Health Service, commented on these reactions as follows: "Of the irregular reactions, I should call No. 1 a weak, delayed vaccinia, and Nos. 9, 109, 351, 445, 475, and 574 weak reactions or failures, assignable to virus of insufficient potency."

was successfully vaccinated would return to the dispensary for dressing, but, on the other hand, the retention of these cases would certainly give too low percentage for vaccinoids and immune reactions.

TABLE No. 2.—Relation of reaction to virus used

	Lot No.	Lot No.	Total
1. Typical Jennerian vaccinia	37	18	55
2. Vaccinoids: (a) Early vesicular ¹ (b) Late vesicular ¹ (c) Early nonvesicular ¹ (d) Late nonvesicular ¹	20 14 40 10	32 8 20 11	52 22 60 21
	84	71	155
3. Immune reactions: (a) Questionable (b) Very slight (c) Slight (d) Moderate (e) Marked	21 51 59 52 21	7 10 32 18 19	28 61 91 70 40
	204	86	290
Irregular No reaction Oid not return for observation Vaccinated a few days previously and not vaccinated at this time	30 57 2	4 4 18	8 34 75 2
8. Total	418	201	619

¹ As a great many of these reactions reached their height on the fifth day after vaccination, it is difficult to distinguish accurately between "early vesicular" and "late vesicular," and between "early nonvesicular," and "late nonvesicular" reactions.

Table No. 3.—Proportion of observed reactions with different viruses
[Same as Table No. 2, with the elimination of those that did not return for observation (75) and those that were vaccinated just prior to arrival (2)]

	Lot 1	No. X	Lot 1	10. Y	Total		
	Number	Per cent	Number	Per cent	Number	Per cent	
Typical Jennerian vaccinia	37	10. 30	18	9.84	55	10. 15	
2. Vaccinoids: (a) Early vesicular. (b) Late vesicular. (c) Early nonvesicular. (d) Late nonvesicular.	20 14 40 10	5. 57 3. 91 11. 14 2. 78	32 8 20 11	17. 43 4. 45 10. 95 6. 00	52 22 60 21	9. 60 4. 05 11. 07 3. 88	
	84	23. 40	71	38. 83	155	28, 60	
3. Immune reactions: (a) Questionable (b) Very slight (c) Slight (d) Moderate (e) Markod	21 51 59 52 21	5. 85 14. 20 16. 43 14. 50 5. 85	7 10 32 18 19	3. 83 5. 46 17. 43 9. 84 10. 39	28 61 91 70 40	5. 16 11. 25 16. 79 12. 91 7. 38	
	204	56. 83	86	46. 95	290	53. 49	
4. Irregular	4 30	1. 12 8. 35	4 4	2. 19 2. 19	8 34	1. 48 6. 28	
6 Total	359	100.00	183	100. 00	542	100.00	

This table brings out the fact that of the two lots of virus used, lot Y was of slightly higher potency. The percentage of "typical

vaccinias" was practically the same in both cases. However, lot X showed a lower percentage of vesicular vaccinoids than lot Y, with a similar percentage of nonvesicular vaccinoids. This lot also gave a greater proportion of the lesser degrees of immune reaction as compared with the marked immune reactions, and it also gave a higher percentage of cases where no reaction followed the vaccination. The expiration dates of both lots was about the same. Lot X had an expiration date seven weeks from the time of purchase and lot Y eight weeks.

Considering both lots of virus together, the following points should be noted: Only 10 per.cent of all these vaccinations resulted in typical Jennerian vaccinias, with maximum diameter of areola between the eighth and the twelfth day. The nonvesicular vaccinoids were in about the same proportion as the vesicular vaccinoids. The vaccinias and vaccinoids together comprise less than 40 per cent of all the men vaccinated. The slight immune reactions greatly outnumbered the moderate and well-marked immune reactions. Over 1 per cent of the cases gave irregular reactions, and over 6 per cent showed no reaction. All of these facts would indicate a virus the potency of which was somewhat below that of the highest degree. On the other hand, 84 per cent of all those who had never before been successfully vaccinated "took," in spite of the fact that many of them had had "unsuccessful" vaccinations within recent years.

Table No. 4 is a summary of the relation of vaccination to the time elapsed since the last successful vaccination.

Table No. 4.—Relation of vaccination to time elapsed since last successful vaccina-

	2.0	thin 5 ears,)-1924	5–10 years, 1915–1919		10-15 years, 1910-1914		15-20 190	yεars, -1909
	Num- ber	Per cent	Num- ber	Per cent	Num- ber	Per cent	Num- ber	Per cent
Typical Jennerian vaccinia	1	1.38	1	1.51	11	5. 09	7	10.77
2. Vaccinoids: (a) Early vesicular (b) Late vesicular (c) Early nonvesicular (d) Late nonvesicular	3 6 6 2	4.17 8.33 8.33 2.77	5 7 6 2	7. 57 10. 60 9. 09 3. 03	9 20 30 13	4. 12 9. 25 13. 89 6. 02	4 5 13 5	6. 15 7. 69 20. 00 7. 70
•	17	23. €0	20	30. 29	72	33. 28	27	41.54
3. Immune reactions: (a) Questionable	4 6 12 15 13	5.55 8.33 16.67 20.85 18.07	5 8 14 7 5	7.57 12.12 21.25 10.60 7.57	10 26 51 21 15	4. 58 12. 14 23. 61 9. 72 6. 95	7 5 4 9 4	10.77 7.69 6.15 13.85 6.15
Total	50	69.47	39	59. 11	123	57.00	29	44.61
4. Irregular 5. No reaction	1 3	1.38 4.17	6	9, 09	3 7	1.39 3.24	2	3.08
6. Total	72	100.00	66	100,00	216	100.00	65	100.00

Table No. 4.—Relation of vaccination to time elapsed since last successful vaccination—Continued

	Over	20 years	N	ever	т	otal	Record
	Num- ber	Per cent	Num- ber	Per cent	Num- ber	Per cent	incom- plete
Typical Jennerian vaccinia	2	22. 22	32	84.21	54	11.59	1
2. Vaccinoids: (a) Early vesicular (b) Late vesicular (c) Early nonvesicular (d) Late nonvesicular	2	22. 22 33. 34	1	2. 63 2. 63	24 39 58 22	5.15 8.37 12.45 4.72	ii 1
	5	55. 56	2	5. 26	143	30.69	
3. Immune reactions: (a) Questionable (b) Very slight	1	11.11			27 45	5.79 9.66	1 16 9
(c) Slight (d) Moderate (e) Marked	1 	11.11	1	2. 63 2. 63	82 54 37	17. 59 11. 59 7. 94	9 16 3
Total	2	22. 22	2	5. 26	245	52. 57	
Irregular No reaction.			2	5. 27	4 20	. 86 4. 29	4 14
6. Total.	9	100.00	38	100.00	466 76	100.00	76
					542		

It will be noted that there is a gradual increase in the proportion of vaccinias as the time elapsed since the last successful vaccination increases. In the same way there is an increase in the proportion of vaccinoids. There is a slight decrease in total immune reactions but a marked decrease in the moderate and well-marked immune reactions, with the increase of time elapsed since the last successful "take."

We spoke of taking a record of old vaccination scars. The results obtained in comparing reactions to scars of former "takes" is of little scientific importance but of some interest. One often hears of a "good" scar spoken of as a fair sign of immunity to smallpox. The character of an old vaccination scar is, of course, a matter of opinion on the part of the observer. In order that we would not be influenced by the knowledge of the age of the scar, the character or apparent degree of trauma was noted before the question of previous vaccination was asked. Table No. 5 shows just how valueless we found them as indicators.

TABLE	No. 5.—Relation	of reaction to degree	or character	of scars	observed of former
		vaccinatio	ns		

	Good	l scar	Fair	scar
	Number	Per cent	Number	Per cent
Vaccinias	7	3. 5%	6	3. 11
Vaccinoids: (a) Early vesicular. (b) Late vesicular. (c) Early nonvesicular. (d) Late nonvesicular. (d) Late nonvesicular.	9	12.80 4.59 10.70 5.10	21 6 18 10	10. 83 3. 11 9. 33 5. 17
Total	65	33 19	55	28 44
Immune reactions: (a) Questionable (b) Very slight (c) Slight (d) Moderate (e) Marked (e) Marked (e) Marked (f) Marked (f) Marked (f) Marked (f) Questionable (f) Marked (f) Questionable (f) Qu	21	4, 59 10, 70 18, 28 12, 80 10, 70	10 28 40 21 15	5. 17 14. 51 20. 86 10. 83 7. 76
	112	57. 07	114	59. 13
Irregular reactions	2 10	1. 06 5. 10	4 14	2. 07 7. 25
Total	196	100.00	193	100.00

In publishing the results of our vaccinations at Lehigh, it is with the idea that the tables are far more important than our comments. We thoroughly believe that the education of the public in the desirability of vaccination is of greater value to the public health than law enactments. The method employed by the United States Public Health Service should be adopted universally, and with the adoption it is believed that this means of protection against smallpox will be welcomed rather than dreaded.

Under this plan practically everyone who is vaccinated is issued a certificate. This certificate will show when he was last vaccinated and the type of reaction, whether immune, vaccinoid, or vaccinia. Under ordinary circumstances that is sufficient. If an epidemic of smallpox should break out in a community, it would be the duty of the local health department to decide on its severity and whether or not any of these classes should be revaccinated.

This latter point can only be arrived at scientifically by the universal adoption of standard technique and certification and the compilation of sufficient data thus obtained.

CURRENT WORLD PREVALENCE OF DISEASE

REVIEW OF THE MONTHLY EPIDEMIOLOGICAL REPORT ISSUED NOVEMBER 15, 1925 BY THE HEALTH SECTION OF THE LEAGUE OF NATIONS' SECRETARIAT¹

In the second half of October fewer cases of cholera were reported to the Singapore Bureau of the Health Section by ports in the Far East than for a number of weeks previous. At Manila the number of cases

¹ From the Statistical Office, United States Public Health Service.

declined rapidly after the sudden outbreak at the end of September with 73 cases in one week, and only 6 cases were reported in each of the last two weeks in October. At Shanghai only one case was reported in the last week of October, and during the three weeks preceding, no new cases had been reported. The extent of the outbreak in Shanghai, which began in August, is shown by the monthly report of Shanghai for August. This gives 39 cases among foreigners and 1,332 among the native population. The mortality among the cases admitted to the Municipal Isolation Hospital for Chinese was barely 15 per cent. Cholera is stated to have been present during August in Soochow, Wusieh, Nanking, and parts of Chekiang Province.

In Japan, according to the Epidemiological Report, the cholera infection spread to nine cities during September and October, but during the last week of October new cases were reported only in Kobe and Osaka.

The following table gives the number of cases of cholera reported by far eastern ports in recent weeks.

	Report for week ended—										
Port	August		September				October				
	22	29	5	12	19	26	3	10	17		31
Bombay 1 Negapatam 1 Madras 1 Calcutta 1 Rangoon 1 Singapore Bangkok Saigon Manila Shanghai Nagasaki Yokohama Kobe Osaka Colombo	37100000 42000	0 1 0 4 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 2 6 0 0 0 2 21 0 17 0 0	0 1 0 5 0 0 0 0 0 12 0 18 6 0	0 1 2 7 0 0 0 5 16 0 7 2 0 0	0 1 1 4 1 0 0 0 73 6 0 3 0 2	0 0 0 0 0 64 3 0 2 4 1	0 0 0 12 1 0 11 0 27 0 0 1 1	0 0 0 3 0 6 1 16 0 0 0 133 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 6 0 19 0 6 1 1 0 0 3

Cholera cases reported in the principal ports of the Far East

The incidence of cholera in India continued to decline during August and the first half of September except in the Punjab and the United Provinces. In most of the Provinces of India the incidence of cholera was unusually low, and was markedly lower than at the corresponding season of 1924, as shown by the table below:

¹Deaths only.

1925		1924		19)25	1924	
Province	July 26- Aug. 22			July 26- Aug. 22	Aug. 23- Sept 19.	Aug. 24- Sept. 20	
Northwest frontier Province Kashmir Punjab Delhi United Provinces Bihar and Orissa	0 895 145 11 382 712	0 570 373 3 1,343 451	18 13 766 5 5,441 4,373	Assam Central Provinces Madras Presidency Bombay Presidency Burma Other Indian States		48 4 861 4 1 23	93 3, 454 2, 020 1, 661 548 1, 063
Bengal Presidency	321	118	642	Total	3, 957	2, 799	20, 097

Deaths from cholera in the Provinces of India

Plague.—Fewer cases of plague were reported during September in Southeastern Russia than during August, except in the government of Stalingrad (Tsaritsyn) where 16 cases and 9 deaths were notified in the first four days of the month. Only two additional cases had been reported to September 28.

Sporadic cases of plague occurred in Egypt at the end of September and the beginning of October. One case of plague was reported in Algeria, one in Tunisia, and one in Syria during the first half of October. Egypt reported 3 cases of plague at Port Said in October, and 15 other cases, all but one in Beni-Suef, during the first three weeks of October.

Plague incidence in Madagascar reached a minimum of 23 cases in July and has gradually increased since that time; there were 54 cases reported in August, 72 in September, and 89 in the first half of October.

An outbreak of plague started in July in the Province of Ijebu-Ode in Nigeria, about 40 miles northeast of Lagos. To the middle of October, 407 cases and 301 deaths had been reported. No new case was reported at Lagos during the four weeks following September 12.

An increase in plague in southern India began during August and by the middle of September was especially marked in Bombay Presidency, the States of Mysore and Hyderabad, areas where the maximum incidence for the year occurs usually in October. In northern India the rise in incidence begins several months later.

Plague deaths reported in the Provinces of India

***************************************	_19	25	1924		19	25	1924	
Province	July 19- Aug. 15	Aug. 23- Sept. 19	Aug. 24- Sept. 20	. 20 Aug	July 19- Aug. 15	Aug. 23- Sept. 19	Aug. 24- Sept. 20	
Northwest frontier Punjab Delhi United Provinces Bihar and Orissa Central Provinces Madras Presidency Hyderabad State	0 48 0 101 8 33 17 30	0 159 0 172 5 407 35 657	17 10 0 84 8 388 151 684	Mysore Bombay Presidency Bengal Presidency Assam Burma Other Indian States	183 154 0 0 391 169	1, 054 0 0 280 275 3, 543	306 264 0 0 102 39 2,053	

In Java the number of deaths from plague has been increasing since the middle of July, and has reached a level above that of the relatively high incidence reported in 1924. Deaths during the four weeks ending September 12 number 1,330, compared with 795 in the preceding four weeks and 860 in the corresponding period a year ago.

In Siam 41 cases of plague were reported in the four weeks ending September 5, compared with an average of 10 cases in the corresponding periods of the preceding three years.

Yellow fever.—More cases of yellow fever occurred on the West Coast of Africa in 1925 than in 1924. In southern Nigeria, 19 cases had been reported to date from 6 localities; in the Gold Coast 5 cases from 5 localities; in Liberia, 5 cases from a single locality; and in the Ivory Coast 1 case. During 1924, 8 cases were reported in the Gold Coast Colony, 9 in Dahomey, and 1 in Nigeria.

Typhus.—In the Union of South Africa the cases of typhus increased quite markedly during July and August, and in the latter month 242 cases were reported, more than twice the number notified during August, 1924.

No increase in typhus in the countries of Central and Eastern Europe was indicated in the reports available for September.

Smallpox.—Fatalities from smallpox apparently continue low in Europe, except in Spain. In the latter country 669 deaths from smallpox were reported in the first six months of the year. Elsewhere deaths from smallpox are rare, and only few or sporadic cases have been reported in recent months by most countries. The incidence of the disease in Russia is extremely low except in a few districts in the east.

In England and Wales there were 242 cases reported during the four weeks ended October 31, compared with 119 in the preceding four weeks. Cases are occurring at present mostly in northern England, particularly in Durham and Yorkshire. The reported case mortality of smallpox in England in 1925 has been 2 per 1,000.

In Mexico smallpox caused 3,572 deaths during the first eight months of 1925. In Jamaica to the end of August 1,368 cases of "alastrim" had been reported. Elsewhere in the West Indies smallpox has not been reported.

In India the incidence of smallpox has been declining markedly. The latest figures for the second week in September, the period of the usual seasonal minimum, are only slightly higher than at the corresponding season a year ago. With regard to the spring epidemic of smallpox in India, the report comments as follows:

The smallpox epidemic which overran most of India during the first half of the year was one of those outbreaks which occur as a rule every fifth year. The various districts of India were affected almost simultaneously, the highest incidence being in the lower Ganges Valley. A previous epidemic had occurred in Bombay Presidency in 1924.

Dysentery.—"The incidence of dysentery decreased earlier in the autumn than usual throughout Europe," says the report. "The small outbreaks in Norway, Sweden, Finland, the Netherlands, and France had practically died out in September." The central and eastern European countries, notably Germany, Poland, Czechoslovakia, Hungary, and the Kingdom of the Serbs, Croats, and Slovenes have reported an incidence very much lower than for several years previous.

Enteric fever.—No marked epidemics of enteric fever, such as occurred last year in southeastern Europe, have been reported. In most European countries a decline in the incidence of the disease set in during September or earlier and the prevalence has been less than in 1924 in England and Wales, Denmark, Bulgaria, and in the Kingdom of the Serbs, Croats, and Slovenes. In Germany and Italy, however, the cases number about the same as last year.

Influenza.—"An increase in mild influenza occurred during the first half of October in England and Wales," states the report, "and there was a simultaneous increase in the number of pneumonia cases reported. The outbreak was chiefly confined to the midland and northern counties of England. One hundred ninety-six deaths from influenza occurred during the four weeks ending October 17, as against 60 during the preceding four weeks. The ages affected were, as usual, the older groups. No further increase was observed during the last two weeks of October. It may be added that, while a higher prevalence of influenza during October and November is of common occurrence in England, serious epidemics are seldom observed before December or January, the pandemic of 1918 presenting a rare exception to this rule. No other influenza outbreaks have been reported so far from any countries of the Northern Hemisphere."

Lethargic encephalitis.—A slight increase in the number of cases of lethargic encephalitis occurred in England and Wales in October and in Sweden in September. Otherwise no changes were noted in the prevalence of this disease. The incidence for the first nine months of 1925 in a number of countries is given in the following table:

Cases of lethargic encephalitis reported in various countries during the first nine months of 1925

Country	Country Cases Annual rate per 100,000 population		Country	Cases	Annual rate per 100,000 popula- tion
England and Wales Scotland (cities) Norway (cities) Sweden Finland Denmark Netherlands Belgium Saar Territory	2, 169 173 14 147 25 125 110 51	7.56 2.32 1.49 2.09 2.4	Czechoslovakia Kingdom of the Serbs, Croats, and Slovenes Switzerland Italy Malta United States (27 States) Australia New Zealand	159 60 69 472 25 594 15	1.5 0.6 2.3 1.5 15.2 1.2 8.4 1.6

Acute poliomyelitis.—In Sweden, where the incidence of poliomyelitis is the highest in Europe, 84 cases were reported in August, 138 in September, and 98 in October.

Only a few sporadic cases occurred during August and September in New Zealand, where one of the most severe poliomyelitis outbreaks ever recorded occurred during the first four months of the year.

Scarlet fever.—The seasonal rise of scarlet fever incidence in central Europe and in Great Britain has been greater than for the past two or three years at the corresponding season. Every few years the disease is more epidemic, and the last year of epidemic incidence in these countries was 1921. As October or November are, as a rule, the months of maximum incidence and the figures for September and October have remained lower thus far than during the autumn of 1921, it is regarded as very unlikely that the disease will continue to increase materially. The Scandinavian countries and those in southern Europe have not been affected by this periodic rise in incidence.

Diphtheria.—Only the usual seasonal increase in diphtheria is indicated in the reports of most European countries. In the United States the September incidence has been lower each year since 1921.

Trachoma.—Reports on the prevalence of trachoma in a number of countries have been summarized in the following table:

Cases of trachoma reported by various countries in 1924 and the first three quarters of 1925

		1925				
Country	Total cases, 1524	First quarter	Second quarter	Third quarter		
Germany Austria Danzig Esthomi France Poland Russia European R. S. F. S. R. Ukraine Transcaucasia Suberia Aut. Rep. of Turkestan Waterways, railways, prisons Switzerland Crechoslovakia Saar Territory Tunis United States (24 States) Panama Canal Zone New Zealand Turkey	531 58 2, 944 483, 290 349, 230 40, 592 20, 758 48, 138 12, 045 3, 407 13 2, 782 3 1, 807 4 1, 807	487 175 9 142 8 1,016 135,433 98,522 17,493 3,174 10,627 3,033 520 2 651 1 1 24 251 0 10 207	757 255 11 123 29 1,051 106,019 72,979 17,030 9,519 5,901 581 12 1,001 0 1 221 0 45	619 1 86 17 63 11 2 885 17 63 6, 417		

¹ Last two weeks missing.
2 Last week missing.

General mortality.—Of considerable interest is the table given below of mortality by quarters in many of the larger cities of the world. Although the rates have not been adjusted for age differences in the

For a month only. For 10 weeks only.

⁵ June and July missing.

various populations, and the rates are therefore not strictly comparable to the last figure, a general indication of the course of mortality in the past three years is given.

A very favorable mortality in 1925 is shown by most North American and European cities, with a particularly marked improvement over the previous two years in the German and other central European cities. "Mortality is highest during the first quarter of each calendar year in all countries of the Temperate Zone, and this is a most important factor in determining the extent of mortality during the year," comments the report. The winter excess mortality is caused largely by influenza and other respiratory diseases, which modern sanitation can control much less effectively than it does the summer diseases which formerly exacted a high mortality.

General quarterly mortality rates per 1,000 population in large cities, 1923-1925

•		19	23			19	24			1925	
. City	First quarter	Second quarter	Third quarter	Fourth quarter	First quarter	Second quarter	Third quarter	Fourth quarter	First quarter	Second quarter	Third quarter
105 English cities London Liverpool Glasgow Dublin Oslo Stockholm Copenhagen Amsterdam Antwerp Paris 46 German cities Berlin Hamburg Munich Munich 26 Swiss cities Milan Vienna Prague Budapest Warsaw Leningrad Alexandria Cairo Johannesburg Calcutta Bombay Madras 60 cities of the United States of America Boston New York Philadelphia Chicago New Orleans San Francisco Rio die Janciro Sydney (with suburbs)	12.5.2 15.2 15.9 11.8 12.6 12.6 15.0 15.2 15.0 15.2 16.0 15.2 16.0 15.2 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0	11. 9 10. 8 14. 1 12. 0 12. 0 12. 0 12. 0 13. 8 14. 9 14. 0 12. 5 13. 3 13. 3 13. 3 14. 5 15. 7 15. 7 15. 7 15. 0 16. 0 17. 0	9.4 9.4 11.0 9.2 9.2 10.0 10.2 8.7 11.9 11.2 11.2 11.5 11.7 11.1 12.3 13.5 37.8 11.7 12.3 37.8 37.8 37.8 37.8 11.9 10.0 10.1 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2	11. 8 12. 1 13. 7 15. 4 10. 7 10. 8 8. 9 9 11. 4 11. 2 12. 3 13. 0 11. 4 12. 3 13. 0 12. 3 13. 0 12. 3 13. 0 12. 3 13. 0 14. 4 15. 4 16. 6 16. 6	16. 9 16. 8 16. 8 22. 6 4 11. 8 11. 8 16. 8 16. 2 11. 8 11. 8 16. 2 11. 8 16. 2 11. 8 16. 2 11. 8 16. 2 11. 8 16. 2 11. 8 16. 2 11. 8 16. 2 11. 8 16. 2 11. 8 16. 2 11. 8 16. 2 11. 8 16. 2 11. 8 16. 2 11. 8 16. 2 11. 8 16. 5 16. 5 16. 5 16. 5 16. 5 16. 5 8 8	11. 8 10. 7 13. 2 15. 4 11. 8 11. 5 14. 3 11. 5 11. 5 11. 5 11. 5 11. 6 11. 7 13. 8 15. 1 14. 4 15. 1 12. 8 18. 8 18. 4 19. 1 19. 1	9.1 8.6 10.3 11.5 9.0 9.8 9.8 7.5 7.1 11.1 9.7 9.4 11.3 9.7 11.1 11.3 12.4 11.3 12.4 11.5 13.9 13.9 13.9 14.5 15.5 16.5	11. 3 9 12. 9 14. 4 4 10. 0 2 10. 9 8 . 3 3 13. 9 9 10. 9 11. 1 12. 6 6 11. 1 12. 6 6 2 2 8 . 2 3 13. 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	14.1 16.9 15.7 12.0 12.0 12.4 10.0 11.7 11.7 12.0 11.7 12.0 11.7 14.7 12.9 11.7 14.6 13.3 13.3 13.3 13.3 13.3 14.2 17.8 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18	11.4 10.1 13.6 10.4 12.9 8.8 11.5 11.5 11.5 11.5 12.2 11.4 11.5 12.2 12.2 14.7 12.2 12.2 14.7 12.2 12.2 14.7 12.2 12.2 12.2 14.7 12.2 12.2 12.2 12.2 12.2 12.2 12.2 12	0.6 6 9.1 10.4 4 11.7 6 9.0 0 9.7 9.9 7 9.9 11.8 10.2 21.1.7 11.7 11.7 11.7 11.7 11.7 11.7

Examination for Entrance Into the Regular Corps of the Public Health Service

Examinations of candidates for entrance into the regular corps of the United States Public Health Service will be held at the following-named places on the dates specified:

Washington, D. C., February 8, 1926.

Chicago, Ill., February 8, 1926.

New Orleans, La., February 8, 1926.

San Francisco, Calif., February 8, 1926.

Candidates must be not less than 23 nor more than 32 years of age, and they must have been graduated in medicine at some reputable medical college and have had one year's hospital experience or two years' professional practice. They must pass satisfactorily oral, written, and clinical tests before a board of medical officers and undergo a physical examination.

Successful candidates will be recommended for appointment by the President, with the advice and consent of the Senate.

Requests for information or permission to take this examination should be addressed to the Surgeon General, United States Public Health Service, Washington, D. C.

DEATHS DURING WEEK ENDED DECEMBER 26, 1925

Summary of information received by telegraph from industrial insurance companies for week ended Dec. 26, 1925, and corresponding week of 1924. (From the Weekly Health Index, Dec. 29, 1925, issued by the Bureau of the Census, Department of Commerce)

	Weck ended Dec. 26, 1925	Corresponding week, 1924
Policies in force	62, 446, 446	57, 980, 043
Number of death claims	9, 652	8, 882
Death claims per 1,000 policies in force, annual rate	8. 1	8. 0

Deaths from all causes in certain large citics of the United States during the week ended December 28, 1925, infant mortality, annual death rate, and comparison with corresponding week of 1934. (From the Weekly Health Index, December 29, 1925, issued by the Bureau of the Census, Department of Commerce)

	Week end 26, 1		Annual death rate per	Deaths 1 y		Infant mortality rate
City	Total deaths	Death rate ¹	1,000 corre- spending week 1924	Week ended Dec. 20, 1925	Corre- sponding week 1924	week ended Dec 26, 1925 ²
Total (65 cities)	6, 638	12. 1	12.8	679	836	3 55
Akron	42			5	10	56
Albany'	21	9. 1	17. 2	1	2	22
Atlanta	59			12	13	
White	33 26			4 8		¦
Colored Baltimore 4	201	(⁵) 13. 4	13. 6	22	27	66
White	151	10. 4	15.0	16	2.	59
Colored	53			-6		96
Birmingham	50	12.7	13.0	8	6	
White	22			4		
Colored	23	(2) 14. 2		2 22 3		
Boston	214	14.2	15.9	22	29	58
BridgeportBuffalo	41 119	11. 2		16	4 19	48 65
Cambridge	119	13 0	14.1 9.8	10	2	ő
Camden	28 37	15.0	9.9	0 8	3	127
Chicago 4	590	10 3	11.1	55	3 79	49 71 50
Cincinnati	126	16 1	19.2	12 20	1 17	71
Cleveland	161	9.0	9.9	20	29	50
Columbus	78	14 5	15.4	8	13	73
Dallas	49	10 8	12. 5	6	5	
Colored	31 9	(•)		3		-
Denver.	62	11.5	18.5	้ เ	7	
Des Moines	22 259	11. 5 7. 7 10. 8	9.7	2	1 i	1 34
Detroit	259	10. 8	10.2	47	48	81
Duluth	21 37	9.9	9.1	4 22 88 24 7 1 7 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2	43
El Paso	37	18.4	22 8	7	6 3	19
Fall River	21 37	15. 9	14 2	1 7	1 8	102
Flint	13	5 2	5.9	2	4	
Fort Worth	39	13. 3	11.3	5	1 4	
White	33	1		. 5		
Colored	6	(0)		. 0		_
Grand Rapids	23	7.8	10.5	6	4	31
Houston White-	76	24.0	16.6	. 5	7	
Colored	55 21	75	-	1 1	·	-
Indianapolis	1 88	(⁵) 12.8	12.2	3 3 3 1 1	7	57
White	77	1		. 5		. 41
Colored	11	10.4		.] 3	ļ	164
Jersey City Kansas City, Kans	63	10.4	14.2	3	12	
White	16 10	0.7	11.1	1 1	4	99
Colound	6	(5)	1	i å		- 7
Kansas City, Mo-	89	12.6	13.0	1 8		
LOS Augeles	183			. 15	8 25	41
Louisville	96	19.3	9.3	15	6	67
WhiteColored	67			·		- 38 273
Lowell	29	(5)	14.0	8	4	33
Lynn	29 26 23	11.5	16.6	. 4 2 5 6	4	126
Memphis	. 53	15.8	19.4	1 6	. Ĝ	
White	2S 25	1	1	. 3		
Colored	25	(5) 7.9 9.7		3 3		
Milwaukee	76	7.9	11.3	17	18	78
Minneapolis Nashville [‡]	79 30	9.7	12.1 13.1	12	8	64
4100HYHID "		11.0	10.1	, a	, ,	
White	.1 16		•	. 2	! !	4

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1921. Cates left blank are not in the registration area for births.

³ Data for 59 cities.

⁴ Deaths for week ended Friday. Dec. 26, 1925.

⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentage of the total population: Atlanta, 31; Baltimore, 15; Birmingham, 39; Dallas, 15; Fort Worth, 14; Houston, 25; Kansas City, Kans, 14; Louisville, 17; Memphis, 38; Nashville, 30; New Orleans, 26; Norfolk, 38; Richmond, 32; and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended December 26, 1925, infant mortality, annual death rate, and comparison with corresponding week of 1924. (From the Weekly Health Index, December 29, 1925, issued by the Bureau of the Census, Department of Commerce)—Contd.

	Week en		Annual death rate per	Death 1 y	Infant mortality rate	
City	Total deaths	Death rate	1,000 corre- sponding week 1924	Week ended Dec. 26, 1925	Corre- sponding week 1924	week ended Dec. 26, 1925
New Bedford New Haven New Orleans. White Colored New York Bronx Borough Brooklyn Borough Manhattan Borough Richmond Borough Newark, N. J Norfolk White Colored Oklahoma City Omaha Paterson Philadelphia Pittsburgh Portland, Oreg. Providence. Richmond White Colored Rochester St. Louis St. Paul Salt Lake City San Antonio San Francisco	34 43 152 60 1, 281 144 446 545 106 82 255 16 9 19 51 33 35 521 160 65 64 60 37 27 27 27 27 27 27 27 24 24 24 24 24 24 24 24 24 24 24 24 24	(a) 12. 5 (b) 10. 4 (c) 12. 6 (c) 12. 6 (c) 12. 6 (c) 12. 6 (c) 12. 6 (c) 12. 6 (c) 12. 6 (c) 12. 6 (c) 12. 6 (c) 12. 6 (c) 13. 6 (c) 14. 4 (c) 12. 3 (c) 12. 6 (c) 12. 3 (c) 12. 6 (c) 12. 6 (c) 13. 6 (c) 14. 6 (c) 14. 6 (c) 14. 6 (c) 15. 6 (c) 16. 8 (c) 16	10. 6 11. 0 22. 7 9 8 11. 1 15. 0 10. 6 11. 6 11. 8 12. 8 13. 7 13. 1 13. 8 13. 9 12. 8 15. 6	2 4 4 13 3 8 5 123 6 6 59 51 7 7 0 13 4 4 1 0 0 47 21 1 0 4 4 4 0 5 15 15 15 15 15 15 15 15 15 15 15 15 1	2 2 5 8 8 11 11 1 7 4 4 11 1 1 1 1 1 1 1 1 1 1 1	33 52 49 21 61 53 32 0 59 74 88 49
San Francisco Schenectady Seattle Somerville Spokane Springfield, Mass Syracuse Tacoma Toledo Tronton Washington, D. C White Colored Waterbury Wilmington, Del Worcester Yonkers Youngstown	144 222 62 227 39 50 23 23 104 98 66 21 23 66 28 30	13. 5 11. 2 12. 9 13. 3 13. 6 11. 5 10. 3 12. 2 17. 2 (5) 9. 8 17. 3 13. 1 9. 8	15. 7 8. 8 10. 9 12. 5 9. 5 10. 3 10. 6 11. 3 13. 7 15. 8 	11 23 33 16 33 22 74 65 51 40 65 4	9 2 3 1 3 4 6 6 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	63 56 29 79 22 89 38 47 63 41 11 86 9 9 109

⁴ Deaths for week ended Friday, Dec. 26, 1925.
⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentage of the total population: Atlanta, 32; Batimore, 15; Birmingham, 38; Dallas, 16; Fort Worth, 14; Houston, 25; Kansas City, Kans., 14; Louisville, 17; Memphis, 38; Nashville, 30; New Orleans, 26; Norfolk, 38; Richmond, 32; and Washington, D. C., 25.

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

CURRENT WEEKLY STATE REPORTS

These reports are preliminary and the figures are subject to change when later returns are received by the State health officers

Reports for Week Ended January 2, 1926

ALABAMA	. 1	CALIFORNIA	
	Cases	Cerebrospinal meningitis:	Cases
Cerebrospinal meningitis	1	Los Angeles	
Chicken pox	42	Oakland	
Dengue	1		
Diphtheria	26	Chicken pox Diphtheria	
Influenza	77		
Malaria	11	Influenza	
Measles	17	Lethargic encephalitis	
Mumps	17	Measles	
Pellagra	7	Mumps	. 139
Pneumonia	174	Poliomyelitis:	
Scarlet fever	11	Redlands	
Smallpox	20	Roseville	
Tetanus	4	Scarlet fever	126
Trachoma	3	Smallpox:	
Tuberculosis	21	Los Angeles	
Typhoid fever	15	Oakland	
Whooping cough	22	Scattering	
ARIZONA		Typhoid fever	. 8
	3	Whooping cough	- 64
Diphtheria	-	COLORADO	
Mumps	_		
Scarlet lever		Chicken pox	
Tuberculosis		Diphtheria	
Typhoid fever	1	Impetigo contagiosa	
ARKANSAS		Mumps	
Chicken pox	5	Pneumonia	
Diphtheria		Poliomyelitis	_ 1
Hookworm disease		Scarlet fever	_ 20
Influenza		Tuberculosis	_ 61
Malaria		Typhoid fever	. 5
Measles		Whooping cough	- 4 5
Mumps			
Paratyphoid fever		CONNECTICUT	
Pellagra	5	Cerebrospinal meningitis.	_ 2
Scarlet fever		Chicken pox	_
Smallpox	4	Diphtheria	
Trachoma		German measles	
Tuberculosis		Influenza	
Typhoid fever	13	Lethargic encephalitis	
Whooping cough		Measles	
		,	_ 200
73521°—26†——2	(5	i3)	,

connecticut—continued	ı	ILLINOIS—continued	
	Cases		Cases
Mumps		Smallpox—Continued	
Paratyphoid fever		Peoria County	
Pneumonia (broncho)		St. Clair County	
Pneumonia (lobar)		Scattering	
Scarlet fever		Tuberculosis	150
Septic sore throat		Typhoid fever:	
Trachoma		Cook County	
Tuberculosis (all forms)	1	Franklin County	
Whooping cough	. 58	Scattering	. 14
FLORIDA		Whooping cough	. 84
	1	INDIANA	
Cerebrospinal meningitis		Chicken pox	. 40
Chieken pox		Diphtheria	35
Diphtheria		Influenza	. 64
Influenza	- 1	Measles	. 194
Malaria)	Mumps	. 5
Measles		Pneumonia	. 31
Mumps		Poliomyelitis	. 1
Pneumonia		Scarlet fever	. 189
Scarlet fever		Smallpox	. 61
Smallpox		Tuberculosis	. 21
Tetapus		Typhoid fever	. 7
Tuberculosis		Whooping cough	. 13
Typhoid fever	. 8	IOWA	
GEORGIA		Chicken pox	. 51
Chicken pox	. 18	Diphtheria	
Conjunctivitis (acute)		Measles.	
Dengue.		Mumps	
Diphtheria		Pneumonia	
Dysentery	-	Scarlet fever	
Hookworm disease	-	Smallpox	33
Influenza		Typhoid fever	2
Malaria		Whooping cough	23
Mensles		KANSAS	
Mumps		Diphtheria	20
Pellagra		Dysentery	. 1
Pneumonia		Influenza	
Scarlet fever	. 16	Measles	
Septic sore throat		Pellagra	
Smallpox		Poliomyelitis—Eureka	
Tuberculosis		Scarlet fever	
Typhoid fever		Smallpox	. 1
Whooping cough.		Tuberculosis	. 23
		Typhoid fever	
ILLINOIS		Whooping cough	. 51
Cerebrospinal meningitis:		LOUISIANA	
Cook County	_ 2	Diphtheria	
De Kalb County	_ 1	Influenza	
White County	_ 1	Malaria	
Diphtheria:		Pneumonia	. 34
Cook County	_ 68	Scarlet fever	. 14
Rock Island County		Smallpox	
Tazewell County	_ 5	Tuberculosis	
Scattering.	. 31	Typhoid fever	. 11
Influenza	_ 15	Whooping cough	. 3
Lethargic encephalitis		MAINE	
Measles		Chicken pox	21
Pneumonia		Diphtheria	. 2
Poliomyelitis:		German measles	. 2
Cook County		Measles	. 2
Schuyler County	. 1	Mumps	. 10
Scarlet fever	_ 326	Paratyphoid fever	. 1
Smallpox:		Pneumonia	
Effingham County		Poliomyelitis	
A Toron County	10	Charlet forces	94

MAINE—continued		MISSISSIPPI	
	Cases		Cases
Septic sore throat	1	Diphtheria	16
Tuberculosis	6	Scarlet fever	. 22
Typhoid fever		Smallpox	. 12
Vincent's angina		Typhoid fever	. 18
Whooping cough	19	MISSOTRI	
MARYLAND 1		Chicken pox	43
Chicken pox	105	Diphtheria	51
Diphtheria	27	Influenza.	. 8
Dysentery	1	Measles	
German measles	2	Mumps	25
Influenza.	32	Ophthalmia neonatorum	. 1
Lethargic encephalitis	1	Scarlet fever	133
Measles	238	Septic sore throat	. 2
Mumps		Smallpox	. 2
Ophthalmia neonatorum		Tuberculosis	
Paratyphoid fever		Typhoid fever	
Pneumonia (broncho)		Whooping cough	. 6
Pneumonia (lobar)		MONTANA	
Scarlet fever		Į.	40
Septic sore throat		Chicken pox	
Tuberculosis		Diphtheria	
Typhoid fever		Measles	
Whooping cough	32	Mumps Scarlet fever	
MASSACHUSETTS		Smallpox.	
	_	Trachoma	
Cerebrospinal meningitis	3	Tuberculosis	
Chicken pox		Typhoid fever	
Conjunctivitis (suppurative)	13	Whooping cough	. 14
Diphtheria		•	, ,,
German measles		NEBRASKA	
Influenza		Chicken pox	. 14
Lethargic encephalitis Measles		Diphtheria	. 4
Mumps.		Measles	
Ophthalmia neonatorum		Mumps	
Pneumonia (lobar)		Pneumonia	. 4
Poliomyelitis		Scarlet fever	- 4 3
Scarlet feyer		Smallpox	
Sept'c sore throat		Tuberculosis	
Trachoma		Typhoid fever	
Tuberculosis (pulmonary)		Whooping cough	. 10
Tuberculosis (other forms)		NEW JERSEY	
Typhoid fever	10		
Wheoping cough	292	Cerebrospinal meningitis	
MICHIGAN		Chicken pox	
	98	Diphtheria	
Diphtheria Measles		Dysentery	
Pneumonia		Influenza Measles	-
Scarlet fever	296	Pneumonia	
Smallpox			
Tuberculosis.	278	Scarlet fever	. 103
Typhoid fever		Typhoid fever	. 51
Whooping cough.		Whooping cough	, 01
		NEW MEXICO	
MINNESOTA		Chicken pox	. 7
Chicken por	77	Diphtheria	. 1
Diphtheria		German measles	
Measles.		Influenza	. 3
Pneumonia		Mumps	. 6
Poliomyelitis		Pneumonia	. 11
Scarlet fever		Poliomyelitis	
Smallpor		Rabies (in animals)	. 1
Tuberculosis.		Scarlet fever	. 10
Typhoid fever	3	Tuberculosis	. 16
Whooping cough	7	Typhoid fever	
¹ Week ended Friday.	'	Whooping cough	. 18

NEW YORK	1	PENNSYLVANIA—continued	
	ases		ases
Cerebrospinal meningitis	2	Preumonia	28
Diphtheria	93	Polionyelitis	1
Influenza	33	Rabies	1
Lethargic encephalitis	1	Scarlet fever	290
Measles 1	, 013	Trachoma	1
Pneumonia	387	Tuberculosis	52
Poliomyelitis	8	Typhoid fever	20
Scarlet fever	215	Whooping cough	210
Smallpox	2	RHODE ISLAND	
Typhoid fever	24 226		
Whooping cough	220	Cerebrospinal meningitis—Providence	1
NORTH CAROLINA	- 1	Chicken pox	5
Chicken pox	97	Diphtheria	5
Diphtheria	46	Influenza	14
German measles	1	Measles	378
Measles	15	Mumps	1
Poliomyelitis	1	Pneumonia	7 5
Scarlet fever	66	Scarlet fever	1
Septic sore throat	2	Whooping cough	4
Smallpox	10 7		*
Typhoid fever	41	SOUTH DAWOTA	
Whooping cough		Chicken pox	10
OKLAHOMA	1	Diphtheria	.8
(Exclusive of Oklahoma City and Tulsa)	1	Mumps Pneumonia	14 8
Cerebrospinal meningitis:	1	Poliom yelitis	1
Pawnee County	1	Scarlet fever	79
Stephens County	ī	Septic sore throat	2
Chicken pox	36	Whooping cough	î
Diphtheria	39		*
Influenza	175	Chicken por	31
Malaria	5	Chicken pox Diphtheria	11
Measles	8	Influenza	49
Mumps	3	Malaria	2
Pellagra	2	Measles (incomplete reports)	43
Pneumonia	90	Pellagra	2
Scarlet fever	38	Pneumonia	78
Smallpox:		Scarlet fever	27
Caddo County	1	Smallpox	9
Kingfisher County	2	Tuberculosis	31
Typhoid fever	19	Typhoid fever	13
Whooping cough	14	Whooping cough	1
OREGON		TEXAS	
Cerebrospinal meningitis	3	Chicken pox	28
Chicken pox	14	Dengue	2
Diphtheria	37	Diphtheria	55
Influenza	5	Influenza	28
Measles	7	Measles	2
Mumps	24	Paratyphoid fever	3
Pneumonia	216	Pneumonia Scarlet fever	35 35
Scarlet fever	22	Smallpox	94
Smallpox	19	Trachoma	
Tuber culosis	6	Tuberculosis	14
Typhoid fever	3	Typhoid fever	4
Whooping cough	26	Whooping cough	4
PENNSYLVANIA		UTAH	_
Cerebrospinal meningitis	3	Cerebrospinal meningitis—American Fork.	
Chicken pox		- Cucorospinal meningues-american fork	
	449		100
Diphtheria	449 128	Chicken pox	
Diphtheria German measles			62 20
Diphtheria German measles Impetigo contagiosa	128 8 6	Chicken pox Diphtheria Meosles	20
Diphtheria German measles Impetigo contagiosa Measles	128 8 6 1.363	Chicken pox	
Diphtheria German measles Impetigo contagiosa	128 8 6 1.363	Chicken pox. Diphtheria. Meosles. Mumps.	20

UTAH—continued .	_ 1	WISCONSIN	
	Cases	Milwaukee	Cases
Tuberculosis	2	Chicken pox	66
Typhold fever	2	Diphtheria	13
Whooping cough	30	German measles	1
VERMONT		Influenza.	
Chicken pox	€0	Measles Mumps	
Diphtheria	1	Pneumonia.	
Measles	33	Scarlet fever	20
Mumps	2	Whooping cough	29
Pneumonia	8	Scattering:	
Scarlet fever	5	Cerebrospinal meningitis	1
Whooping cough	30	Chicken pox	
		Piphtheria	41
WASHINGTON		German measles	8
Cerebrospinal meningitis:		Influenza	
Seattle	1	Measles	115
Spokane	2	Mumps	
Tacoma	1	Pneumonia.	. 11
Chicken por	76	Poliomyelitis	. 1
Diphtheria	12	Scarlet fever	137
German measles	8	Smallpox	
Measles	17	Tuberculosis	. 6
Mumps	26 56	Typhoid fever	. 1
Scarlet feverSmallpox:	30	Whooping cough	74
Tacoma	14	WYOMING	
Scattering	27		_
Trachoma.	1	Chicken pox	
Tuberculosis	21	Diphtheria	
Typhoid fever	2	German measles	
Whooping cough	19	Influenza	
		Mumps	
WEST VIRGINIA		Pneumonia Scarlet fever	
Diphtheria	6 13	Smallpox	
Scarlet fever— Typhoid fever—Hinton	13	Whooping cough	-
Typnoid tevet—IIIIIvon-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	•	1 11 HOOPING COMEMATICAL STREET	
Reports for West	k End	led December 26, 1925	
meports for week	a Enu	lea December 20, 1929	
DISTRICT OF COLUMBIA		NORTH DAKOTA—continued	
	Cases	-	Cases
Chicken pox		Smallpox	
Diphtheria		Tuberculosis	. 1
Measles		Typhoid fever	. 1
Pellagra		Whooping cough	. 29
Pneumonia			
Scarlet fever		SOUTH CAROLINA	,
Tuberculosis		Dengue.	
Typhoid fever		Diphtheria	
Whooping cough	10	Influenza	
NORTH DAKOTA		Malaria	
Chicken pox	9	Measles	
Diphtheria		Scarlet fever	
German measles		Smallpox	
Measles	3	Tuberculosis	
Mumps	5	Typhoid fever	
Scarlet fever	60	Whooping cough	50

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Cere- hro- spinal menin- gitis	Diph- therm	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
June, 1925 Alabama November, 1925	5	30	56	305	23-	138	8	76	270	274
California Kansas. Maine Montana New York Pennsylvania South Dakota Utah Washington Wyomng	6 6 3 1 11 5 2 6	547 128 25 21 970 1, 118 17 156 133	61 21 3 1 109	5 0 0 8 2	53 30 17 16 3,007 2,126 4 16 22 2	1	50 5 3 50 5 7 1 11 2	567 285 135 119 1,066 1,856 367 95 349 61	194 28 0 39 1 2 9 22 220	64 49 26 15 185 206 12 14 26

Number of Cases of Certain Communicable Diseases Reported for the Month of November, 1925, by State Health Officers

State	Chick- en pox	Diph- theria	Mea- sles	Mumps	Scar- let fever	Small- pox	Tuber- culosis	Ty- phoid fever	Whoop- ing cough
Alabama	48	219	6	91	105	156	194	134	52
Arizona	40	26	5	76	64	ő	64	30	3
Arkansas	50	76	6	7	59	8	1 53	117	38
California	846	547	53	755	567	194	672	64	212
Colorado	205	176	13	27	90	101	173	58	80
Connecticut.	257		261	33	185	- 0	112	17	235
Dalaman	201	173	1	99	15	ŏ	5	5	
Delaware District of Columbia	20 88	34	13			0	94	11	15
District of Columbia		117			101				36
Florida	13	141	3	17	24	14	128	57	34
Georgia	30	156	5	52	44	19	57	110	34
Idaho 2									
Illinois	1, 328	584	682	213	1, 280	79	1, 332	206	453
Indiana		292			750			72	
Iowa	207	180	16	46	211	39	31		49
Kansas	466	128	30	37	285	28	195	49	262
Kentucky 3									
Louisiana	14	154	6		58	34	1 268	164	35
Maine	158	25	17	70	135	Ö	1 27	26	159
Maryland	473	154	530	209	187	ŏ	238	118	176
Massuchusetts	805	351	3, 321	165	781	ŏ	527	35	718
Michigan		474	411	53	875	18	304)	84	564
Minnesota	571	353	23	50	859	14	188	25	123
Mississippi	280		183	419		39		309	
Mississippi		250			77 555		278		634
Missouri	306	388	19	55		10	157	145	71
Montana	112	21	10	502	119	39	26	15	42
Nebraska									
New Hampshire									
New mainpanire									
New Jersey	979	383	647		606	0	365	41	146
New Mexico 2									
New York	2, 232	970	3,007	413	1,066	1	1, 376	185	913
North Carolina	275	545	80		321	44		38	178
North Dakota		19	10	173	236	10	5	9	79
Ohio	1, 498	833	1,076	106	1, 140	137	506	187	591
Oklahoma	65	200	9	15	135	26	57	322	82
Oregon	168	182	21	123	218	88	57	17	70
Pennsylvania	2.988	1, 118	2,126	373	1.856	2	400	206	973
Rhode Island	53	51	421	4	43	0	30	10	64
South Carolina 2	.					l			
South Dakota	. 78	17	4	111	367	9	10	12	26
Tennessee '	1				00.	1	1		20
Texas3	1				!				
Utah	674	156	16	17	95	22	1 14	14	100
Vermont		22	14	97	91	20	10	i	143
Virginia	358	500	267	1 "	396	17	1 139	139	274
Washington	518	133	22	157		220			
West Virginia	182	161	90	1 101	349 225		155	26	141
Wissensin	1 1000	258				37	41	108	56
Wisconsin	1,038		392	263	530		149	40	501
Wyoming	-) 91	6	2	5	61	17		12	5
	1	<u> </u>		ı	1	1	1	1	1

¹ Pulmonary tuberculosis only.
² Report not received at time of going to press.

³ Reports received weekly. ⁴ Reports received annually.

Case Rates per 1,000 Population (Annual Basis) for the Month of November, 1925

State	Chick- en pox	Diph- theria	Measles	Mumps	Scar- let fever	Small- pox	Tuher- culosis	Ty- phoid	Whoop- ing cough
Alabama Ariyana. Ariyana. Arkansas Culifornia Colorado Connecticut Delaware District of Columbia Florida. Georgia Illinois Indiana. Iowa Kansas Louisiana Maine Maryland Massachusetts Michigan. Minnesofa Missouri Montena New Jersey North Carolina North Carolina North Carolina Ohio Oklaboma Oregon Pennsylvania Rabde Island South Dakota Utah Vermont Virginia Washington West Virginia Wyoming	2. 45 2. 04 2. 15 1. 12 2. 32 2. 32 2. 46 3. 13 2. 46 2. 27 2. 27 2. 27 2. 27 2. 27 2. 27 2. 21 2. 32 2. 40 3. 1. 30 1. 21 3. 40 5. 2. 40 5. 2. 40 5. 2. 40 5. 2. 40 5. 2. 40 6.	1. 08 . 780 1. 66 2. 100 1. 37 1. 76 2. 286 1. 02 1. 187 . 86 1. 02 1. 187 1. 03 1. 23 1. 03 1. 24 1. 06 1. 09 2. 40 1. 09 2. 40 2. 40 3. 40 4.	0. 03 . 15 . 04 . 16 . 2. 07 . 03 . 22 . 23 . 20 . 24 . 26 . 20 . 24 . 27 . 30 . 22 . 35 . 35 . 18 . 207 . 30 . 2. 26 . 35 . 18 . 20 . 31 . 35 . 18 . 35 . 18 . 36 . 37 . 40 . 418 . 48 . 18 . 68 . 18 . 68 . 18 . 68 . 17 . 11	0. 45 2. 27 .05 2. 28 .32 .26 .10 .11 .37 .22 .25 .49 .16 .2. 85 .49 .16 .2. 85 .49 .16 .2. 85 .49 .16 .2. 85 .177 .49 .2. 83 .3. 67 .20 .3. 35 .1. 29 .1. 14 .27	0. 52 1. 91 1. 72 1. 77 1. 47 2. 47 1. 22 2. 98 2. 1. 91 2. 1. 91 2. 1. 92 2. 1. 92 2. 1. 10 2. 1. 42 2. 1. 10 2. 1. 42 2. 1. 10 3. 1. 42 3. 1. 42 4. 08 3. 1. 1. 42 4. 08 6. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	0. 77 .00 .05 .59 .01 .00 .00 .00 .16 .08 .14 .19 .19 .22 .00 .00 .05 .07 .27 .00 .18 .18 .19 .19 .19 .19 .10 .00 .00 .05 .07 .27 .00 .18 .18 .18 .19 .19 .18 .18 .19 .19 .18 .18 .19 .19 .18 .18 .19 .19 .18 .18 .19 .18 .18 .19 .18 .18 .19 .18 .18	0. 96 1. 91 - 33 2. 08 - 39 2. 20 1. 41 - 23 3. 15 1. 31 1. 74 1. 88 1. 55 1. 17 - 89 1. 27 1. 51 3. 31 3. 42 49 1. 27 1. 51 3. 30 3. 35 3	.27 .64 .36 .29 .33 1.06 .40 .93 .10 .25 .12 .210 .51 .28 .14	0. 26 . 09 . 25 . 64 . 95 . 1. 97 . 78 . 38 . 38 . 14 1. 76 2. 47 1. 39 2. 12 2. 47 1. 101 1. 27 1. 101 1. 27 1. 24 4. 31 1. 40 1. 101 1. 27 1. 24 1. 101 1. 27 1. 24 1. 101 1. 27 1. 24 1. 28 1. 29 1. 20 1.

PLAGUE-ERADICATIVE MEASURES IN THE UNITED STATES

The following items were taken from the reports of plague-eradicative measures from the cities named:

Oakland, Calif.

(Including other East Bay communities)

Week ended Dec. 19, 1925:	
Number of rats trapped	708
Number of rats found to be plague infected.	0

Totals:

Number of rats trapped Jan. 1 to Dec. 19, 1925	78 574
	,
Number of rats found to be plague infected	21
Number of squirrels examined May 1 to Aug. 1, 1925	7, 277
Number of squirrels found to be plague infected	0
Number of mice trapped Jan. 1 to Dec. 19, 1925	29, 344
Date of discovery of last plague-infected rat, Mar. 4, 1925.	
Date of last human case, Sept. 10, 1919,	

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended December 19, 1925, 36 States reported 1,618 cases of diphtheria. For the week ended December 20, 1924, the same States reported 2,029 cases of this disease. One hundred cities, situated in all parts of the country and having an aggregate population of more than 28,200,000, reported 875 cases of diphtheria for the week ended December 19, 1925. Last year for the corresponding week they reported 1,063 cases. The estimated expectancy for these cities was 1,320 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-three States reported 4,791 cases of measles for the week ended December 19, 1925, and 1,406 cases of this disease for the week ended December 20, 1924. One hundred cities reported 2,933 cases of measles for the week this year, and 773 cases last year.

Poliomyelitis.—The health officers of 37 States reported 23 cases of poliomyelitis for the week ended December 19, 1925. The same States reported 28 cases for the week ended December 20, 1924.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-six States—this year, 3,349 cases; last year, 3,308 cases. One hundred cities—this year, 1,301 cases; last year, 1,695 cases; estimated expectancy, 999 cases.

Smallpox.—For the week ended December 19, 1925, 36 States reported 540 cases of smallpox. Last year for the corresponding week they reported 654 cases. One hundred cities reported smallpox for the week as follows: 1925, 96 cases; 1924, 226 cases; estimated expectancy, 58 cases. One death from smallpox was reported by these cities for the week—at Los Angeles, Calif.

Typhoid fever.—Four hundred and thirty-nine cases of typhoid fever were reported for the week ended December 19, 1925, by 35 States. For the corresponding week of 1924, the same States reported 632 cases of this disease. One hundred cities reported 86 cases of typhoid fever for the week this year and 302 cases for the corresponding week last year. The estimated expectancy for these cities was 76 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 93 cities, with a population of about 28,000,000 as follows: 1925, 885 deaths; 1924, 984.

City reports for week ended December 19, 1935

The "estimated expectancy" given for diphtheria, policypelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is must instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the op-demic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

He ports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1915 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the Gisease given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

		GI.: I-	Diph	heria	Influ	enza			
Division, State, and city	Population July 1, 1923, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expec- tancy	Cases re- ported	Cases re- ported	Deaths re- ported	Men- sies, eases re- ported	Mumps, cases re- ported	Pncu- monia, deaths re- ported
NEW ENGLAND									
Maine: Portland	73, 129	2	2	1	1	2	1	5	2
New Hampshire: Concord	22, 408	0	0	0		0	0	0	1
Vermont: Barre	1 10, 008	2	0	0	0	0	0	0	0
Massachusetts: Boston	770, 400	57	64	27	5	2	158	13	27
Fall River	129, 912	1 8	5	3	2	0	131	0	3 1
Springfield Worcester	191, 927	3	5	3	ō	ő	202	ő	Ġ
Rhode Island: Pawtucket Providence	68, 790 242, 378	6	3 15	3 9	6	0	3 237	0	5 8
Connecticut: Bridgeport	1 143, 555	3	10	4	1	1	93	0	2 8
Hartford New Haven	133, 036 172, 967	9 23	9	5 0	0	0	30 13	0	8 3
MIDDLE ATLANTIC									
New York: Buffalo	536, 718	29	30	8	2	3	2	1	9
New York Rochester	317, 867	224 24	212 7	135 6	10	9	859 25	22	161 5
Syracuse New Jossey:	184, 511	5	9	5	0	0	3	24	4
Camden Newark	124, 157 438, 699	63	5 19	0 16	2 2	0	11 35	1 5	7
Trenton	127, 390	8	5	2	0	0	3	0	5
Philadelphia Pittsburgh		139 16	75 29	92 22		2	72 17	11	53 35
Reading.		iŏ	5	5	0	Õ	Ö	ō	3
EAST NORTH CENTRAL		1				1		ł	
Ohio: Cincipnati	406, 312 888, 519	16	17	18		. 7	1 ,1	9	15
Cleveland Columbus	.] 261, 082	74 15	45 9	39 4	0	7	435	0	26 6
Toledo Indiana:	268, 338	17	16	6	0	1	17	0	5
Fort Wayne Indianapolis		20	6 16	12	0	0	18	2	14
South Bend Terre Haute	76,709	1 3	3	1	0	0	0		0 2
Illinois: Chicago Springfield	2,886,121 61,833	115 6	182 3	56 3	9	4 0	24		58 2
Michigan: Detroit	1, 155, 000	88	75	40		5			49
Flint Grand Rapids	_ 117, 903	5 9	12	3				0	
Wisconsin: Madison	1	11	1	0	1	0	0	0	
Milwaukce	484, 595	139	26 2	43	0	Ö	5	4	6
Racine Superior	1 39, 671	4	ī	1 0	il ö		i	il ô	ıl ī

Population Jan. 1, 1920.

City reports for week ended December 19, 1925-Continued

Division, State, and eaty	Population July 1, 1923, estimated	Chick- en pov, cases re- ported	Diphtheria		Influenza				
			Cases, esti- mated expec- tancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
WEST NORTH CENTRAL									
Minnesota: Duluth Minneapolis St. Paul Iowa:	106, 289 409, 125 241, 891	5 46 21	3 23 19	2 13 11	0 0 0	0 1 0	0 0 5	5 3 1	5 18 9
Davenport Sioux City Waterloo Missouri:	61, 262 79, 662 39, 667	6 1	2 3 2	1 0 1	0 0 0		0 1 0	0 0 1	
Kansas City St. Joseph St. Louis	351, 819 78, 232 803, 853	33 7 26	14 4 66	11 0 46	1 0 0	1 0 0	3 2 3	0 0	7 3
North Dakota: Fargo	24, 841 14, 547	0 2	1 1	0	0 0	0	0	16 0	0
Aberdeen Sioux Falls Nebraska:	15, 829 29, 206	5	0	0	0	0	0	45	0
Lincoln Omaha Kansas:	58, 761 204, 382 52, 555	10 40	2 6 2	0 2 1	0 0	0	0	0 0 2	11
Topeka Wichita	79, 261	12	8	ō	ő	ő	3	ő	7
SOUTH ATLANTIC Delaware:	115 500								
Wilmington Maryland: Baltimore	773, 580	152	3 41	12 20	0 11	0 2	268	76	30
Cumberland Frederick District of Columbia:	32, 361 11, 301	1	2 1	0	0	0	0	0	0
Washington Virginia	1 437, 571	16	18	37	3	0	7	0	14
Lynchburg Norfolk Richmond Roanoke	30, 277 159, 089 181, 044 55, 502	17 14 13 3	1 4 11 4	3 1 11 1	0 0 0	0 0	0 0 2 0	0 1 0	1 9 9 3
West Virginia: Charleston Wheeling North Carolina:	45, 597 1 56, 208	1 1	2 2	1 0	0	0	0	1 0	4 1
Raleigh Wilmington Winston-Salem South Carolina:	29, 171 35, 719 56, 230	0 3 2	2 1 2	0 3	. 0	0 0	0 1 8	0 0 0	1 1 6
Charleston Columbia Greenville	71, 245 39, 688 25, 789	0 2	2 1 1	2 2	0	1 0	0	0	4 0
Georgia: Atlanta Brunswick Savannah	222, 963 15, 937 89, 448	2 2 1	5 0 2	3 0 1	41 0 10	1 0 1	0 0 1	1 0 0	7 0 4
Florida: St. Petersburg Tampa	24, 403 56, 050	0	1 2	0 2	0	0	0	0	1 6
EAST SOUTH CENTRAL									
Kentucky: Covington Louisville	57, 877 257, 671	0	3 10	4 3	0	0	0 2	0	0
Memphis Nashville	170, 067 121, 128	5 1	10 4	2		2	0 13	0	8
Alabama: Birmingham Mobile Montgemery	195, 901 63, 858 45, 383	8 4 8	5 1	1 1 5	5 0 2	5	0	0 1 19	16 4 0

¹ Population Jan. 1, 1920.

City reports for week ended December 19, 1925-Continued

	•				•				
Division, State, and city	Population July 1. 1923, estimated	Chick- en pox, cases re- ported	Diphtheria		Influenza		3.5		
			Cases, esti- mated expec- toney	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths 1e- ported
WEST SOUTH CENTRAL									
Arkansas: Fort SmithLittle RockLouisiana:	30, 635 70, 916	2 1	2 2	1 0	0 6	0	0 2	0 0	i
New Orleans Shreveport	404, 575 54, 590	3	12 0	17	3	3	0	0	10
Oklahoma: Oklahoma City Texas:	101, 150	0	3	0	0	1	0	0	3
Dallas Galveston Houston San Antonio	177, 274 46, 877 154, 970 184, 727	8 0 1 1	14 1 4 3	8 3 19 4	1 0 0 0	2 0 1 1	0 0 0	0 0 0	9 1 8 7
MOUNTAIN									
Montana: Billings Great Falls Helena Missoula	16, 927 27, 787 112, 037 112, 668	5 13 0 7	1 2 0 1	0 0 0	0 0 0	0 0 0	0 0 0	7 108 0 0	0 0 0 1
Idaho Boise Colorado:	22, 806	0	1	0	0	0	0	0	0
Denver Pueblo New Mexico.	272, 031 43, 519	29 2	13 4	11 4	0	0	3 0	0	9
Albuquerque Arizona:	16,648	4	1	0	0	0	0	2	2
Phoenix	33, 899	0		0	0	0	0	0	1
Salt Lake City Nevada:	126, 241	42	2	4	0	0	0	15	3
Reno	12, 429	0	0	0	0	0	0	0	0
PACIFIC Washington:									
Seattle Spokane Tacoma	1 315, 685 104, 573 101, 731	47 44 2	7 5 3	9 3 3	0 0	ō	10 0 0	46 0 0	2
Oregon: Portland	273, 621	2	7	15	0	0	2	4	12
California: Los Angeles Sacramento. San Francisco	666, 853 69, 950 539, 038	29 8 34	37 2 24	31 0 18	8 1 5	5 0 0	14 1 3	9 1 2	18 5 2

¹ Population Jan. 1, 1920.

City reports for week ended December 19, 1925-Continued

Davision, State, and city Cases, and city												
Division, State, and city Cases and		Scarle	t fever		Smallpo	x	Tubor-	Ту	phoid f	ever	Whoon-	
Mare:	Division, State, and city	esti- mated expect-	re-	esti- mated expect-	re-	re-	culo- sis, deaths re-	esti- mated expect-	re-	re-	ough, cases re-	all
Portland. New Hampshire: Concord. Nossechuseits: 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NEW ENGLAND											
New Fork 155 169 10 10 10 10 10 10 10 1	Portland	2	4	0	0	o	0	0	0	0	2	24
New Fork 155 169 10 10 10 10 10 10 10 1	Concord	0	0	0	0	0	0	0	0	0	0	11
Boston	Barre	1	0	0	0	0	0	0	0	0	0	0
Springfield	Boston.		50	0				2			70	231
Worcester	Springfield		3	0	, 0	0	0	0	0	0	2	30
Pawtucket	Worcester	11	5	0	. 0	0	1	0	0	0	11	42
Bridgeport	Pawtucket Providence		1 3	0								24 72
MIDDLE AILANTIC New York: Buffalo. 22 13 0 0 0 0 7 1 4 1 18 139 130 130 130 122 7 48 1,390 Rechester. 12 18 0 0 0 0 2 1 0 0 0 40 46 180 190	Bridgeport						3					33
New York:	New Haven	8	2	ŏ					Ô		2	38
Suffalo												
Rechester	Buffalo	22	13	0		0	7	1	4	1		
Syracuse	Rochester	155 12	169 18			0	2				48 7	1,390
Camden	Syracuse	12	2	0	0	0	2	0	0	0		
Trenton	Camden					0		1 2				
Philadelphin. 58 76 1 0 0 43 4 5 0 0 34 553 Plittsburgh. 30 58 0 0 0 0 8 1 0 0 0 0 0 0 0 162 Reading. 1 7 0 0 0 0 0 0 0 0 0 0 0 4 43 EAST NORTH CENTRAL Ohic: Cincinnati 13 11 0 1 0 13 1 0 1 19 147 Cleveland 31 32 1 0 0 8 2 1 1 0 550 184 Columbus 10 18 1 7 0 3 1 3 1 3 0 5 65 Toledo 14 27 0 0 0 3 1 3 0 5 65 Toledo 14 27 0 0 0 0 1 1 0 0 0 1 15 Indiana: Fort Wayne 2 2 1 1 0 0 0 3 1 3 1 0 1 0 1 18 115 South Bend 4 6 0 2 0 0 0 0 1 1 0 0 0 2 12 Ilhiois: Chicago 116 152 1 0 0 550 66 7 2 44 702 Ilhiois: Chicago 116 152 1 0 0 550 66 7 2 44 702 Springfield 2 0 0 0 0 1 0 0 0 0 2 12 Michigan: Detroit 77 121 2 0 0 0 0 1 0 0 0 0 26 19 Michigan: Detroit 77 121 2 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0	Trenton	3	2	ŏ		ŏ						
EAST NORTH CENTRAL Ohio: Cincinnati	Philadelphia		76	1	0	0			5			
Ohio: Cincinnati	Reading								0			162
Cincinnati												
Cleveland	Ohio:											
Toledo.	Cleveland		32	1	Ō			2	0	1 0		147 181
Fort Wayne		10	18	1	7	1 0	3	1	3	0	5	65
Richampolis		ı	i	l	ł	l	l	1	i	1	1	1
Terre Haute. 2 5 1 0 0 3 0 1 0 0 20 Illinois: Chicago	TUGISTIS TO STATE OF THE PROPERTY OF THE PROPE	10	13	4	27	0	3	0	1	0	18	115
Chicago	Terre Harris			i					1			
Michigan: Detroit	('hicago	116	152	1	0	0						702
Flint. 9 3 1 0 0 0 0 0 0 26 28 19 28 Wisconsin: Madison 2 6 0 0 0 0 0 0 0 1 0 0 26 28 28 Milwaukee 28 15 1 0 0 0 0 0 0 1 0 0 30 90 Racine. 4 4 0 0 0 0 0 0 0 1 0 7 11 0 7 111 Superior. 2 3 1 0 0 0 0 0 0 0 0 0 0 9 9 West North Central Minnesota: Duluth. 5 11 0 0 0 0 2 0 0 0 0 0 0 1 0 0 0 9 Wisconsin: Minnesota: Duluth. 5 11 0 0 0 0 2 0 0 0 0 2 0 0 0 116 St. Paul 18 53 4 2 0 5 1 5 0 6 61 St. Paul 18 53 4 2 0 5 1 5 0 6 61 St. Paul 18 53 4 2 0 5 1 5 0 0 6 61 St. Paul 2 0 0 1 1 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Michigan:					1		1		l .		
Wisconsin: Maison 2	· Flint	9	3	1	0	0	0	0	Ö	0	26	19
Milwaukee 28 15 1 0 0 0 7 0 0 0 0 7 0 0 0 7 0 0 7 0 0 7 0 0 7 0 0 7 0 0 7 0 0 7 0 0 7 0 0 7 0 0 7 0 0 7 0 0 7 0 0 7 0 0 7 0	Wisconsin:					Į.	l	1	1			20
Minnesota: Duluth. 5 11 0 0 0 0 0 0 0 0	Milwaukee	28	15	1 1	0	0	7	0	0	0	30	
Minnesota: Duluth 5 11 0 0 0 2 0 0 0 0 24 Minneapolis 38 58 5 0 0 5 1 2 0 0 0 116 St. Paul 18 53 4 2 0 5 1 5 0 6 61 Davenport 1 4 0 0 0 Siour City 2 0 1 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Superior			1	8	ő					0	9
Duluth	WEST NORTH CEN- TRAL											
Minneapolis 38 58 5 0 0 5 1 2 0 0 0 116 St. Paul 18 53 4 2 0 5 1 5 0 6 61 Vana: Davenport 1 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Minnesota:											
St. Paul. 18 53 4 2 0 5 1 5 0 6 61 Iowa: Davenport 1 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Minneapolis	38	58	5	0	0	2 5					24 116
Davenport	St. PaulIowa:	18	53	4	ž							
waterioo 3 0 0 0 0 0 0 0 0 0 0 1	Davenport Sioux City	1 2										
	Waterloo		Õ	Ō				ŏ				

¹ Pulmonary tuberculosis only.

City reports for week ended December 19, 1925-Continued

	Ι					Typhoid fever					T T
	Scarle	t fever		Smallpe	x	Tuber-	Ty	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	re-	Deaths re- ported	cough, cases re-	Deaths, all causes
WEST NORTH CENTRAL—continued											
Missouri: Kansas City St. Joseph St. Louis	11 2 32	13 1 63	0	0 0 0	0	7 1 9	1 0 2	0 0 0	0 0 1	8 0 0	98 32 229
North Dakota: Fargo Grand Forks.	2 1	6 0	1 0	0	0	2	0 0	0	0	9 0	7
South Dakota: Aberdeen Sioux Falls Nebraska:	1 2	0 5	1 0	2 0	0	ō-	0	0	0	0	
Lincoln Omaha Kansas:	2 6	2 11	0 2	7	0	2 0	0	0	0	8 1	17 64
Topeka Wichita	3	2 4	1	0	0	0	0	0	0	5 2	13 29
SOUTH ATLANTIC											
Delaware: Wilmington Maryland:	3	4	0	0	0	1	1	1	0	1	31
Baltimore	23 1 1	21 0 1	0 0 0	0 0 0	0 0 0	11 0 0	0	1 0 0	0 0	27 0 0	204 15 2
bia: Washington	20	23	1	D	0	3	4	2	0	12	124
Virginia: Lynchburg Norfolk Richmond Roanoke	0 2 6	2 1 9 0	0	0 0 0	0 0 0	0 4 6	0 0	0 0	0 0	0 0 1 3	7 61 15
West Virginia: Charleston Wheeling	1 2	2 4	0	0	0	0 2	0 1	0 1	0	2 0	11 23
North Carolina: Raleigh Wilmington Winston-Salem	1 1 1	2 0 3	0 0	5 1	0	1 0 2	0 0 0	0 0	0	0 0 2	10 13 16
South Carolina Charleston Columbia Greenville	1 0 1	4 0	0 0	0	0	3 0	0	1 0	0	0	32
Georgia: Atlanta Brunswick Savannah	4 0 0	2 0 0	2 0 0	0	0	10 0 3	1 0 1	1 0 1	2 0 0	1 0 0	78 3 35
Florida: St. Petersburg Tampa	0	0 2	0	0	0	1 1	0	0	0	0	17 32
EAST SOUTH CENTRAL											
Kentucky: Covington Louisville	2 4	2 6	. 0	0	0	3 2	0	0 2	0	0 2	23 79
Tennessee: Memphis Nashville	3 3	6 5	0	1 0	0	5	1 1	0	0	0	71 39
Alabama: Birmingham Mobile Montgomery	4	2 0 1	0 1 0	1 0 0	0	7 3 0	0 0	1 1 0	1 0 0	3 0 0	79 26 11

City reports for week ended December 19, 1925—Continued

	Scarlet	t fever		Smallpo	т	Typhoid fever					
						Tuber- culo-				Whoop- ing	Deaths.
Division, State, and city	Cases, esti- mated	Cases	Cases, esti- mated	Cases	Deaths re-	sis, deaths re-	Cases, esti- mated	Cases re-	Deaths re-	cough, cases re-	all causes
	expect- ancy			ported			expect- ancy			ported	
WEST SOUTH CENTRAL											
Arkansas: Fort Smith Little Rock	1 2	1 0	0	0		1	0	1 1		0	
Louisiana: New Orleans	5	9	1	2	0	22	3	2	1	0	155
Shreveport Oklahoma: Oklahoma City	0 2	3	1	1	0	1	1 0	1	0	0	26
Texas: Dallas	3	7	1	0	0	4	1	0	0	21	61
Galveston Houston San Antonio	0 2 1	0 1 1	0 1 0	0 2 1	0 0 0	2 2 3	0 1	0 0	0	0	13 66 56
MOUNTAIN											
Montana: Billings Great Falls	1	1	1	1	0	0	0	0	0	0 7	3
Great Falls Helena Missoula	1 0 0	6 0 1	1 0 0	0	0	0 0	0	0	0	0 0	3 3 6 1
Idaho: Boise	1	1	0	1	0	0	0	0	0	1	3
Colorado: Denver Pueblo	10 3	14 0	6	2 0	0	8	0	1 0	0	18 2	79 14
New Mexico: Albuquerque	1	3	0	0	0	1	0	1	0	0	
Arizona: Phoenix Utah:		4		0	0	9		0	0	0	13
Salt Lake City. Nevada:	4	7	3	0	0	0	1	0	0	9	29
Reno	0	0	0	0	0	1	0	0	0	0	6
PACIFIC Washington:											İ
Seattle	7 5	19 20	1 5	2			1 0	3 0		5 2	
Tacoma Oregon:	2	2	1	19	0	0	0	0	0	2 5	20
Portland California: Los Angeles	7 20	27 32	6	1 8	0	3	3	0 3	0	0	604
Sacramento San Francisco	20 2 11	3 12	0	10	0 0	13 5 10	0 2	0	0	4 0 4	227 29 131

City reports for week ended December 19, 16 2 - Continued

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Division, state, indicts	Cubiq	Dea ⁺ hs	(1667	Pet ¹ lc		De 11.5	Crspc, est m teu expc t LL()	Caser	Deaths
NEW ENGLIND		1		1			!		
Massachusetts Boston	0	0	1	0	0	0	1	0	0
MIDDLE ATLANTIC					1		}		
New York Buflalo New York Rochestur Pennsyly mia Philadelphia	0 1 0	0 1 1	0 5 0 1	0 1 0	0 0 0	0 0 0		0 0 1	1 0 0
EAST NORTH CENTRAL									
Ohio Cleveland Columbus	0 1	0	0	0	0	0			2 0
Illinois Chicago	2	1	0	0	0	0		0	0
SOUTH ATLANTIC							1		
Maryland Baltimore Georgia Sayonnah	0	0	1 0	0	0	0	0	0	o
LAST SOUTH CINTEAL			1		i				1
Alabama Birmingh im Mobile	0		0	0	1 0	0	0	0	0
WEST SOUTH (FNTRAL									
Louisiana New Orleans Texas	0	0	0	0	1	1	0	0	0
HoustonSan Antonio	0	0	0	0	0	1	0	0	
MOUNT UN									
Colorado Denver	0	0	0	1	0	0	0	0	6
Utah Salt Lake City	0		0	0	0	0	0	0	
- PACIFIC								1	
Wushington Seattle Spokane	1 4	0	0		0	0	0	0	6
Oregon Portland	1	0	0	0	0	0	1	0	
California Los Angeles San Francisco	0	0	0		1 0	0		0	

The following table gives the rates per 100,000 population for 103 cities for the 10-week period ended December 19, 1925. The population figures used in computing the rates were estimated as of July 1, 1923, as this is the latest date for which estimates are available. The 103 cities reporting cases had an estimated aggregate population of nearly 29,000,000, and the 96 cities reporting deaths had more than 28,000,000 population. The number of cities included in

each group and the aggregate populations are shown in a separate table below:

Summary of weekly reports from cities, October 11 to December 19, 1925—Annual rates per 100,000 population $^{\rm 1}$

DIPHTHERIA CASE RATES

		Week ended									
	Oct. 17	Oct. 24	Oct. 31	Nov.	Nov. 14	Nov. 21	Nov. 28	Dec.	Dec. 12	Dec. 19	
103 cities	154	² 168	\$ 182	166	174	181	159	171	164	4 163	
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central West South Mountain Pacific	236 224 97 93 162	5 97 129 189 259 6 268 109 102 372 142	137 149 195 282 228 97 264 3 176 157	97 126 187 267 211 137 199 286 148	127 141 194 240 252 69 213 248 145	144 143 189 226 289 132 176 315 186	104 150 162 178 221 120 181 134 165	124 137 172 280 221 120 278 239 128	107 139 166 243 205 132 185 172 200	137 147 161 180 7 207 97 8 253 181 186	
MEASLES CASE RATES											
103 cities	70	2 93	3 105	154	174	229	212	353	441	4 532	
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	447 65 23 10 55 6 0 10 29	5 599 87 47 10 6 40 40 14 29 12	604 110 57 12 59 17 5 3 20 15	852 159 74 15 154 17 9 38 17	937 171 88 10 232 17 9 47 20	1, 130 256 103 15 289 51 9 29	827 239 124 31 353 34 5 10 26	1, 583 339 255 19 552 40 5 10 58	2, 025 453 307 25 576 23 5 38 55	2, 159 520 503 37 7 615 86 8 10 25	
SCARLET FEVER CASE RATES											
103 cities	126	2 132	3 160	170	191	175	205	220	231	4 241	
New England. Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	151 276 137	5 130 96 142 296 5 134 132 42 115 133	201 106 194 305 193 80 42 195 148	271 111 167 384 185 109 102 172 162	246 142 189 400 172 183 121 181 206	209 144 196 421 123 137 93 162 197	214 149 220 454 144 183 139 172 249	224 166 273 433 127 177 111 248 226	194 173 302 493 162 120 148 162 194	199 190 300 471 7166 126 8 93 286 258	
	s	MALL	POX	ASE I	RATES						
103 cities	8	27	³ 10	10	8	17	16	13	21	4 21	
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	0 8 0 6 46 0 29 58	5 7 0 4 4 4 6 0 6 0 10 78	0 0 17 27 6 6 0 10 46	0 0 12 12 12 29 0 19	0 0 13 4 6 34 0 19 44	0 0 32 17 21 11 0 19 78	0 32 10 2 11 9 10 99	0 0 14 19 4 11 14 0 110	0 0 34 19 8 6 9 105 131	0 1 27 37 7 12 11 6 24 38 119	

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1923.
¹ Barre, Vt., and Wimston-Salem, N. C., not included.
¹ Barre, Vt., and included.
¹ Greenville, S. C., and Shreveport, La., not included.
¹ Barre, Vt., not included.
² Barre, Vt., not included.
² Winston-Salem, N. C., not included.
² Greenville, S. C., not included.
² Greenville, S. C., not included.
² Greenville, S. C., not included.
² Greenville, S. C., not included.

TREASURY DEPARTMENT

PUBLIC HEALTH REPORTS

ISSUED WEEKLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

Volume 41 :: :: Number 3

JANUARY 15 - - 1926

= SPECIAL ARTICLE ====

Stream Pollution Investigation of the Public Health Service



WASHINGTON GOVERNMENT PRINTING OFFICE

UNITED STATES PUBLIC HEALTH SERVICE

Hugh S. Cumming, Surgeon General

DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg. Gen. B. J. LLOYD, Chief of Division

The Public Health Reports are issued weekly by the United States Public Health Service through its Division of Sanitary Reports and Statistics, pursuant to acts of Congress approved February 15, 1893, and August 14, 1912.

They contain: (1) Current information of the prevalence and geographic distribution of preventable diseases in the United States in so far as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other communicable diseases throughout the world. (2) Articles relating to the cause, prevention, or control of disease. (3) Other pertinent information regarding sanitation and the conservation of the public health.

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Smallpox	110
Typhus fever	110
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Plague	111
Smallpox	111
Typhus fever	112
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PUBLIC HEALTH REPORTS

VOL. 41

JANUARY 15, 1926

No. 3

A REVIEW OF THE WORK OF THE UNITED STATES PUBLIC HEALTH SERVICE IN INVESTIGATIONS OF STREAM POL-LUTION ¹

By W. H. Frost, Surgeon, United States Public Health Service, in Charge of Stream Pollution Investigations

In March, 1901, Congress provided for the erection of a laboratory by the United States Public Health Service "for the investigation of infectious and contagious diseases and matters pertaining to the public health," and in the same year a division of scientific research was organized in the Bureau of the Public Health Service. the year 1901 may be said to mark the establishment of systematic and continued scientific investigation as a recognized function of the Public Health Service. Considering the rôle which sewage-polluted drinking water was playing at that time in the spread of typhoid fever and other infectious diseases, and recalling that the membership of the Hygienic Laboratory Advisory Board included the great leader in sanitary science, Prof. William T. Sedgwick, it was inevitable that attention should have been directed at once to the importance of comprehensive studies of stream pollution in relation to disease. That this was true is evidenced by frequently recurring references in the annual reports of the director of the Hygienic Laboratory during its early years, but the number of other urgent problems was so great and the resources of the laboratory were so limited that for several years work in this field was of necessity limited to occasional studies of local water supplies, undertaken usually in connection with investigations into the causes of the epidemic or endemic prevalence of typhoid fever in various localities.

In 1910 the first systematic investigation of the status and effects of sewage pollution in any large area was begun by the assignment of A. J. McLaughlin, surgeon, United States Public Health Service,

¹ Editorial note: This is one of four papers of a symposium on stream pollution presented at the meeting of the sanitary engineering division of the American Society of Civil Engineers at Cincinnati, Ohio, April 23, 1925, and published in the Proceedings, Vol. LI, No. 9, November, 1925. The other papers, which will appear in early issues of Public Health Reports and will later be combined with the present article and issued in pamphlet form, are as follows: "The rate of deoxygenation of polluted waters," by Emery J. Theriault; "The rate of atmospheric receration of sewage-polluted streams," by H. W. Streeter; and "Quantitative studies of bacterial pollution and natural purification in the Ohio and Illinois Rivers," by J. K. Hoskins.

to make a survey of cities in the Great Lakes region, with instructions to investigate the extent of the pollution of their water supplies and its relation to the prevalence of typhoid fever and other water-borne diseases, and to examine State and municipal ordinances relating to its control. Upon the completion of these surveys and of the reports thereon, which were published as bulletins of the Hygienic Laboratory, Doctor McLaughlin was assigned, by request of the health authorities of States bordering on the Missouri River, to make a survey of the sewage pollution of that stream. In this work, which was carried out during the summer of 1912, Doctor McLaughlin for the first time had the assistance of another officer of the service and was enabled, through the cooperation of the health authorities of the States concerned and of certain cities on the river, to establish several laboratories and make a rather extensive series of bacteriological examinations.

By the time this work had been brought to a close the International Joint Commission, established under the treaty between the United States and the Dominion of Canada, had taken up the question of regulating the pollution of international boundary waters, and, on request of the commission, Doctor McLaughlin was granted leave of absence from the service to accept appointment as chief sanitary expert and director of field work in investigations undertaken by the commission. These studies, although undertaken independently by the International Joint Commission, may, in a certain sense, be considered as an extension and continuation of the survey of Great Lakes cities previously undertaken by Doctor McLaughlin for the Public Health Service.

In the meantime, by an act approved August 14, 1912, Congress had extended the function of the Public Health Service to include, among other added duties, that of investigating "the diseases of man and conditions influencing the propagation and spread thereof, including sanitation and sewage and the pollution, either directly or indirectly, of the navigable streams and lakes of the United States," and in 1913 made a special appropriation, which has since been continued annually, for carrying out these provisions. The Public Health Service was thus enabled for the first time, in 1913, to establish field laboratories at such points in the United States as might be most suitable for special purposes and to employ a scientific personnel especially qualified to conduct investigations in various fields of research.

It was under this extended authority that in the summer of 1913 a group of sanitary engineers, chemists, biologists, and bacteriologists was assembled and a beginning made on a concerted plan for investigations relative to stream pollution. As originally organized, the work undertaken comprised the following main divisions:

- 1. Studies of the biochemistry of sewage and industrial wastes were undertaken at the Hygienic Laboratory under the direction of Earle B. Phelps, affiliate, American Society of Civil Engineers, who was appointed in that year as chief of the division of chemistry in the laboratory. These studies were devoted especially to testing and developing the application of biological oxygen demand determinations to the measurement of the potential polluting effect of sewage and the capacity of streams for its oxidation, a field of research to which Mr. Phelps had already made notable contributions.
- 2. Intimately connected with these was a series of studies, likewise under the direction of Mr. Phelps but carried on for the most part at various points cutside of Washington, D. C., attempting, by means of experimental installations, to devise better methods for the treatment of various important industrial wastes for which economical and effective processes had not previously been evolved.
- 3. Under the direction of H. S. Cumming, surgeon, United States Public Health Service, the present Surgeon General of the service, a study of the pollution and natural purification of the Potomac River was undertaken. The Potomac was selected as a type of tidal stream, and special attention was paid in this study to the effect of sewage from the city of Washington on the waters near the mouth of the river, where important shellfish beds are situated. This investigation, which was completed in the summer of 1914, was then extended and continued as a survey of the sewage pollution of various coastal waters, with special reference to the contamination of shellfish.
- 4. At the same time, in the summer of 1913, work was begun on a study of the pollution and natural purification of the Ohio River, which was selected as a typical large inland stream, receiving sewage, usually without treatment, from all cities on its watershed, and at the same time being used by many of these cities as their source of water supply. Headquarters for this work were established in Cincinnati, Ohio, with subsidiary temporary laboratories at five other points along the river.

These several studies although conducted by working parties organized into separate units, were closely knitted together by being all under the direction of the Division of Scientific Research in the Bureau of the Public Health Service and by the intimate relations which were maintained between those in charge of the several organizations. In fact, they were considered and pursued, not as separate studies, but as interdependent parts of a common and general plan. They were all continued, substantially as originally organized in 1913, until 1917, when it was necessary to discontinue

them in order to utilize their personnel in various other more urgent duties during the period of the World War.

By the latter part of 1919, when it was possible to resume the investigations, the original personnel had become much dispersed by necessary assignments to other duties and by resignations. Likewise, the funds available for these investigations, although not actually reduced to any great extent, were relatively diminished by the material increase in all scales of cost, so that in the reorganization it was necessary to discontinue the investigations of coastal waters, which had been brought to a fairly definite conclusion, and to reestablish the other work at a single base in Cincinnati, which has since served as central headquarters for experimental studies of stream pollution and as the base from which parties have been sent out for work in the field.

Shortly after this reorganization the Surgeon General, recognizing the need for authoritative advice in the planning and conduct of these investigations, requested Dr. Stephen A. Forbes, professor emeritus of biology at the University of Illinois and director of the Illinois State Natural History Survey; Dr. Edwin O. Jordan, professor of hygiene and bacteriology at the University of Illinois; Langdon Pearse, member American Society of Civil Engineers, sanitary engineer of the Sanitary District of Chicago; and Earle B. Phelps, affiliate, American Society of Civil Engineers, consulting sanitary engineer, of New York, N. Y., to serve as consultants in studies of stream pollution. These consultants, meeting once or twice each year with the staff engaged in the investigations, and keeping in close touch with the progress made, have rendered generous and valuable assistance in shaping plans, devising methods, and interpreting results. Subsequently Joseph W. Ellms, member American Society of Civil Engineers, consented to serve as special consultant in studies of water-purification processes and has had an active share in the development of investigations along this line.

Since 1919 the principal field investigations undertaken from this base have been—

- 1. A study of the pollution and natural purification of the Illinois River, undertaken chiefly to check and extend observations previously made on the Potomac and the Ohio Rivers relative to the laws governing natural purification in streams.
- 2. A survey of representative municipal sewage-disposal plants in various parts of the United States to collect information as to their efficiency and cost in actual operation.
- 3. A collective study of municipal water-purification plants, chiefly rapid sand filters, as operated in a number of cities on the Ohio River and elsewhere, with a special view to ascertaining more precisely the

relations between pollution of the raw water and quality of the effluent under varying processes and conditions of operation.

Along with these field studies experimental investigations have been consistently pursued in the Cincinnati laboratory, chiefly along the following lines:

- (a) An attempt has been and is being made, so far without notable success, to reproduce on a small scale, adapted for intensive experimental study, the phenomena of bacterial purification which are now known to take place in natural streams. This has included as a necessary item rather extensive research into the biology of various plankton forms in relation to bacterial purification.
- (b) Studies of the biological oxygen demand of sewage, industrial wastes, and polluted river waters have been continued in the endeavor to establish more definitely the laws governing the natural processes of oxidation in streams and to check and improve the precision of methods for making the determinations required.
- (c) As an extension of the collective study of municipal filter plants which was completed in 1924, experimental studies are now being made of the relation of the pollution of raw water to the quality of effluent obtainable by rapid sand filtration and chlorination, utilizing an experimental plant on the laboratory grounds which is designed so that the conditions of loading and of operation can be varied at will through a wide range.

In addition to these studies, which have been pursued at Cincinnati, work has been going on for several years at the Hygienic Laboratory under the direction of Dr. William Mansfield Clark, in a study of the physical chemistry of coagulation, with special reference to applications in water purification.

It would be impossible within a brief space, and is, moreover, not pertinent to this paper, to relate in more detail the history of the various undertakings which have been outlined, nor will any discussion of the results be attempted. As far as they have matured, they have already been made generally available in a considerable number of publications,² and some of them, with the addition of some more recent data, have been discussed in the papers by Messrs. Theriault, Streeter, and Hoskins, which follow.

In conclusion, it will be more appropriate to review briefly the broad general considerations which have determined the scope and direction of such studies as the Public Health Service has undertaken in this field since it has been in a position to make and pursue any general plan, that is, since 1913.

The first consideration, of course, has been the limitation of available resources, which have sufficed in most years for the maintenance of a staff not exceeding 6 to 12 workers in the higher grades, enough to

A list of the more important of these publications is given in the appended bibliography.

form a compact group for consistent work on definite lines, but obviously not sufficient to permit of any wide dispersion. The governing considerations in deciding on the use to be made of these resources have been: The existing status and trend of conditions with respect to sewage pollution in the waterways of this country; the status of sanitary science as applied to devising the remedial measures necessary to meet present and future conditions; and the facilities available through State and municipal organizations, independent institutions for research, and the engineering profession at large for conducting such further investigations as may be required.

With respect to sewage pollution, the status in the United States was, in 1913, and is to-day, that the greater part of the sewage from cities, probably not less than 85 to 90 per cent of it, is discharged without treatment into the most convenient stream. Where the dilution is insufficient for prompt oxidation and removal of the sewage, the result is the establishment of a gross nuisance in the immediate vicinity, offensive to the sense of decency and frequently injurious to the financial interests of the community responsible for the pollution. The remedy for this, however, is at hand, as the ingenuity of sanitary engineers, chemists, and biologists has already devised effective means for the treatment of sewage at reasonable cost, and self-interest may be relied upon to impel cities which suffer nuisance from their own sewage, to avail themselves of this remedy. The abatement of such gross nuisance is usually a local matter, requiring no broad plan of concerted action between widely separated communities, and, as the principles of the required treatment are already well established, such special investigation as is required is usually a matter of detail, to ascertain the particular process or combination of processes which will serve most economically and effectively in the particular case. Obviously, such investigations are the business of the State and local authorities and of the practicing engineers retained by them rather than of a Federal agency.

The more usual and more serious result, where dilution and current are sufficient to prevent immediate gross nuisance from the discharge of untreated sewage, is to contaminate the water supplies of other cities taken from the same river system at downstream points, or, in the case of tidal waters, dangerously to contaminate waters from which shellfish are taken. In the case of public water supplies necessarily taken from such polluted sources the immediate remedy is artificial purification of the supply. For this, again, sanitary science has already provided the means in various processes of treatment, economically practicable and of such efficiency that they may be relied upon to give safe effluents from water which is highly but not indefinitely polluted. In 1913 there were, to be

sure, a number of cities using dangerously polluted water supplies, but in every instance the remedy—installation of adequate water-purification works—was obvious, and such investigations as were required were not general, to ascertain the practicability of a remedy, but local and special, to decide upon the details of the installation best adapted to apply established principles to the problem at hand. It is clear that these local investigations, like those required for local sewage treatment installations, are not the function of the Public Health Service.

In general, the situation up to the present time has been that, notwithstanding the customary practice of discharging raw sewage into streams, those cities which have had to take their water supplies from the rivers thus polluted have almost invariably been able, by applying established processes of artificial water purification, to secure water supplies of good, safe quality. This has been true because the volume of the larger rivers is such as to afford great dilution, even for the sewage of the larger cities, and because of the distances between the sewer outlets of these cities and the water-supply intakes of other cities downstream are such as to permit of great reduction in pollution by the natural agencies of purification. Similarly, in coastal waters, although they are grossly polluted in the immediate vicinity of cities discharging sewage, there are still great areas sufficiently free from dangerous contamination to be suitable for shellfish culture. Consequently, local measures, namely, the installation of waterpurification plants for safeguarding water supplies and the condemnation or local protection of the relatively small areas unfit for shellfish culture, have sufficed for immediate protection against the dangers of sewage pollution. The protection has not been perfect, but it has tended to become progressively better in recent years, as evidenced by the enormous decrease in prevalence of sewage-borne diseases.

Looking to the future, the conditions forseen and the remedies which must eventually be applied become more complex. With the growth of urban population, which still continues at a rapid rate, the sewage pollution of streams and coastal waterways must increase, and sooner or later, in the absence of anticipatory control, it seems inevitable that eventually the pollution will become such that waterpurification plants of the highest attainable efficiency will not be able to deliver consistently safe effluents. To guard against this condition it will be necessary, perhaps in the near future, to limit the pollution of such inland streams as are necessary sources of water supply by such measure of sewage treatment as will suffice to keep the pollution at water-works intakes within definite bounds.

This, however, is an extraordinarily complex matter, not only from the administrative point of view, with which this presentation is not concerned, but equally from the scientific viewpoint. It implies a concerted plan of control applied to an entire river system as a unit, a plan in which, presumably, each community will be required to limit its contribution of sewage pollution, not in the interests of its own citizens but for the protection of other communities downstream, usually including cities in several States. Safety demands that the measure of control exercised be adequate; justice demands that it be distributed among the communities on some definite and equitable principle; and economy demands that it be not more rigid than is actually necessary to insure the requisite protection to health.

The data needed for laying out any such comprehensive plan for controlling the pollution of an entire river system, with due regard for the considerations of safety, equitable distribution of the burden of control, and economy, are as follows:

First.—It is necessary to have established some quite definite and objective criterion of the quality which is to be maintained in the water supplies taken from the river as they are delivered to the consumers after artificial purification. This criterion or standard must be in terms of measurable characteristics, determinable by quantitative bacteriological or chemical examinations. It must be rigid enough to insure safety beyond any reasonable question, but not much more rigid than is actually necessary, lest it impose an excessive burden of costs.

Second.—It is necessary to have a fairly precise knowledge of the reliability and efficiency of such purification processes as can be applied at a reasonable cost to purification of the raw water available at the best practicable intake, for it is this efficiency, taken in connection with the standards set for the final effluent, that determines the upper limits of the pollution which may be tolerated at the intake.

Third.—It is necessary to know what proportionate part each of the sewered communities, situated at varying distances upstream, contributes to the pollution existing at any given intake, for otherwise it is impossible to estimate what effect elimination or reduction of the pollution from any single community will have in reducing the pollution in the intake zone. This, in turn, implies a fairly precise quantitative knowledge of the laws governing the processes of natural purification, and of how they may vary in different types of streams in relation to various climatic, seasonal, and hydrographic conditions, for it is only through such knowledge that these great protective processes which nature has provided may be used most effectively, and not to use them is to waste a natural resource of enormous economic importance.

Unfortunately, sanitary science has not furnished such full and precise knowledge as will be required on any of these points, especially

in regard to the natural agencies which tend so greatly and rapidly to reduce bacterial contamination and which constitute one of the main reliances for protection of health. Moreover, it seems unlikely that it will be possible to borrow this knowledge from the experience of other more densely populated countries, as the writer knows of no other country having similar problems in the control of stream pollution on a comparable scale and for a similar purpose; that will probably have to be studied successfully before a solution becomes necessary for some of the great river systems in the United States.

It is with these considerations in view that the Public Health Service, with the advice of its consultants, has consistently directed its investigations of stream pollution along the lines described, devoting a large part of its effort to such undertakings as the attempt to improve technical methods for laboratory determinations, to evaluate the efficiency of filtration plants under the adverse conditions of loading which may be anticipated in the future, and to add something to the present scanty knowledge of the laws of natural purifica-Information of this kind, even if it may seem at this time to be more or less academic, will be essential to sound sanitary engineering practice in the future. Moreover, it appears to be preeminently the kind of information that a Federal agency should collect, because it is of general, not local, application, and because it involves such long-continued and laborious investigations as are not likely to be undertaken by private agencies, or even by State and municipal organizations, busy as they are with more immediate administrative work and with the necessary local studies incident to it.

However, while the Public Health Service is confident that this general policy is sound, it can not, of course, feel equally confident that the sequence which is being followed in the development of these studies is the best possible or that the methods which are being applied are always the most effective. For guidance in such matters the service relies primarily on its special consultants, but, in addition, it always has sought and sincerely desires the criticism and constructive advice of the entire sanitary engineering profession. Therefore, the opportunity of outlining the purposes and present status of the work to the engineers of the country is especially appreciated, in the hope that they will further it by their criticism and advice.

Appendix

BRIEF BIBLIOGRAPHY RELATING TO STUDIES OF STREAM POLLUTION, SEWAGE, AND WATER SUPPLIES

The following is a list of the publications of the United States Public Health Service relating to studies of stream pollution, sewage, and water supplies. The list includes only publications containing

- original data, omitting numerous articles which present general discussions of various topics.³
 - Sewage Pollution of Interstate and International Waters, with Special Reference to the Spread of Typhoid Fever: I. Lake Erie and the Niagara River. By A. J. McLaughlin. H. L. B. No. 77 (1912). 169 pp. 25 cents.
 - Scwage Pollution of Interstate and International Waters, etc.: II. Lake Superior and St. Marys River; III. Lake Michigan and the Straits of Mackinac; IV. Lake Huron, St. Clair River, Lake St. Clair, and the Detroit River; V. Lake Ontario and the St. Lawrence River. By A. J. McLaughlin. H. L. B. No. 83 (1912). 296 pp. 30 cents.
 - Sewage Pollution of Interstate and International Waters, etc.: VI. The Missouri River from Sioux City to Its Mouth. By A. J. McLaughlin. H. L. B. No. 89 (1913). 84 pp.
 - Investigation of the Pollution and Sanitary Condition of the Potomac Watershed, with Special Reference to Self-Purification and the Contamination of Shellfish in the Lower Potomac River. By Hugh S. Cumming, with Contributions by W. C. Purdy and Homer C. Ritter. H. L. B. No. 104 (1916). 231 pp.
 - Investigation of the Pollution of Tidal Waters of Maryland and Virginia, with Special Reference to Shellfish-Bearing Areas. By Hugh S. Cumming. H. L. B. No. 74 (1916). 199 pp. 10 cents.
- *Artificial Purification of Oysters. By William F. Wells. P. H. R., July 14, 1916. Reprint No. 351. 4 pp. Out of print.
- Investigation of the Pollution of Certain Tidal Waters of New Jersey, New York, and Delaware. By Hugh S. Cumming. P. H. B. No. 86 (1917). 147 pp.
- Stream Pollution: A Digest of Judicial Decisions and a Compilation of Legislation on the Subject. By Stanley D. Montgomery and Earle B. Phelps. P. H. B. No. 87 (1917). 408 pp.
- Treatment and Disposal of Creamery Wastes. By Earle B. Phelps. P. H. R., December 6, 1918. Reprint No. 496. 5 pp.
- Studies on the Treatment and Disposal of Industrial Wastes: I. The Treatment and Disposal of Strawboard Waste, by Harry B. Hommon; II. The Determination of Biochemical Oxygen Demand of Industrial Wastes and Sewage. By Emery J. Theriault and Harry B. Hommon. P. H. B., No. 97 (1918). 56 pp.
- Studies on the Treatment and Disposal of Industrial Wastes: III. The Purification of Tannery Wastes. By Harry B. Hommon. P. H. B. No. 100 (1919). 133 pp.
- Studies of Methods for the Treatment and Disposal of Sewage: Treatment of Sewage from Single Houses and Small Communities. By Leslie C. Frank and C. P. Rhynus. P. H. B. No. 101 (1919). 117 pp. 25 cents.
- A Further Study of the Excess Oxygen Method for the Determination of the Biochemical Oxygen Demand of Sewage and Industrial Wastes. By Emery J. Theriault. P. H. R., May 7, 1921. Reprint No. 594. 11 pp.

³ The abbreviations used in the bibliography are as follows: "H. L. B.," Hygienic Laboratory Bulletin; "P. H. B.," Public Health Bulletin; and "P. H. R.," Public Health Reports, U. S. Public Health Service. The reprint number is given when the article appearing in Public Health Reports has been reprinted separately.

All but one of these publications are available at the present time either from the Public Health Service or from the Government Printing Office. Where the price is not given, the publication may be obtained free of charge from the Surgeon General, United States Public Health Service. Where the price is stated, remittance should be made to the Superintendent of Documents, Government Printing Office, Washington, D. C.

- Studies on the Treatment and Disposal of Industrial Wastes: IV. The Purification of Creamery Wastes. By Harry B. Hommon. P. H. G. No. 109 (1921). 87 pp. 10 cents.
- Studies on the Treatment and Disposal of Industrial Wastes: V. The Purification of Tomato-Canning Wastes. By Harry B. Hommon. P. H. B. No. 118 (1921). 58 pp. 10 cents.
- Hypochlorite Process of Oyster Purification (Experimental). By F. A. Carmelia. P. H. R., April 22, 1921. Reprint No. 652. 10 pp.
- The Loading of Filter Plants. By H. W. Streeter. P. H. R., March 24, 1922. Reprint No. 737. 13 pp.
- A Study of the Pollution and Natural Purification of the Ohio River: I. The Plankton and Related Organisms. By W. C. Purdy. P. H. B. No. 131 (1923). 78 pp.
- Sewage Treatment in the United States: Report on the Study of Fifteen Representative Sewage Treatment Plants. By H. H. Wagenhals, E. J. Theriault, and H. B. Hommon. P. H. B. No. 132 (1923). 260 pp.
- An Experimental Study of the Relation of Hydrogenion Concentrations to the Formation of Floc in Alum Solutions. By Emery J. Theriault and William Mansfield Clark. P. H. R., February 2, 1923. Reprint No. 813. 20 pp.
- Indicators for pH Control of Alum Dosage. By Barnett Cohen. P. H. R., April 6, 1923. Reprint No. 828. 2 pp.
- On the Composition of the Precipitate from Partially Alkalinized Alum Solutions. By Lewis B. Miller. P. H. R., August 31, 1923. Reprint No. 862. 10 pp.
- A Study of the Pollution and Natural Purification of the Ohio River: II. Report on Surveys and Laboratory Studies. By W. H. Frost, H. W. Streeter, J. K. Hoskins, and R. E. Tarbett. P. H. B. No. 143 (1924). 343 pp.
- Absorption of Aluminium Hydrate Considered as a Solid Solution Phenomenon. By Lewis B. Miller. P. H. R., June 20, 1924. Reprint No. 932. 14 pp.
- A Study of the Pollution and Natural Purification of the Ohio River: III. Factors Concerned in the Phenomena of Oxidation and Re-aeration. By H. W. Streeter and Earle B. Phelps. P. H. B. No. 146 (1925). 75 pp.
- The Determination of Dissolved Oxygen by the Winkler Method. By Emery J. Theriault. P. H. B. No. 151 (1925). 43 pp.
- Some Preliminary Observations from a Study of Water Purification Plants Along the Ohio River. By H. W. Streeter. P. H. R., January 30, 1925. Reprint No. 987. 11 pp.
- A Study of the Effects of Anions Upon the Properties of "Alum Floc." By Lewis B. Miller. P. H. R., February 20, 1925. Reprint No. 992. 18 pp.

MORTALITY SUMMARY FOR 78 LARGE CITIES

Number of deaths, death rates, and infant mortality in 78 large cities of the United States for 52 weeks of 1925 and comparison with 1924

[From the Weekly Health Index, Bureau of the Census, Department of Commerce]

			Deaths	Provisional	Infant mor-	Mortal end	ity data lar year l	for cal- 1924
City 1	Total deaths	Death rate 2	under 1 year	mor- tality rate, 1925 2.3	tality rate, 1924	Total deaths	Death rate	Deaths under 1 year
Total (69 cities)	369, 142	12. 6	45, 384	4 70	4 72	359, 467	12. 5	47, 049
Akron 5. Albany Atlanta 5.6 Baltimore Birmingham 6. Boston Bridgeport 5. Buffalo Cambridge Camdem Canton Chicago Cincinnati Cleveland Columbus Dallass 6. Dayton Denver 6. Des Moines Detroit Duluth El Paso 6. Erie 6. Fall River Fint Fort Worth 6. Grand Rapids Houston 6. Indianapolis Jersey City. Kansas City, Kons Kansas	1, 867 1, 826 3, 862 31, 473 11, 535 7, 388 3, 493 1, 762 1, 762 1, 762 1, 762 1, 763 3, 429 6, 683 3, 896 1, 947 4, 947 4, 947 1, 535 1, 535 1, 525 1, 535 1, 542 4, 194 4, 194	12.6	45, 384 291 174 518 1, 382 493 1, 601 1, 1654 1, 156 4, 474 4732 448 178 465 1, 304 448 178 216 191 216 191 216 244 244 244 244 244 244 244 244 244 24	4 70 60 70 77 87 54 85 88 88 67 76 65 65 76 65 65 65 65 65 65 65 65 65 65 65 65 65	4 72 611 72 85 56 84 84 85 81 777 79 66 66 77 72 92 87 77 94 87 77 94 87 79 72 87 79 72 68 66 66 66 66 66 66 67 79 72 87 72 87 68 66 66 66 66 66 66 66 66 66 66 66 66	350, 467 1, 537 1, 827 4, 1310 3, 411 10, 940 1, 595 6, 218 9, 295 3, 2, 462 1, 704 1, 120 1, 271 1, 645 1, 271 1, 645 1, 271 1, 645 1, 271 1, 530 2, 328 4, 597 3, 821 1, 530 2, 328 1, 530 2, 532 2, 462 1, 530 2, 532 1, 530 2, 532 1, 530 2, 532 1, 530 2, 532 1, 530 2, 532 1, 530 2, 532 1, 530 2, 532 1, 530 2, 532 1, 530 2, 532 1, 530 2, 532 1, 530 2, 532 1, 530 2, 532 1, 530 2, 532 1, 530 2, 532 1, 530 2, 532 1, 530 2, 532 1, 530 2, 532 1, 530 2, 532 1, 530 2, 532 2	12. 5 15. 4 14. 4 17. 0 14. 1 15. 3 12. 8 13. 8 10. 1 11. 2 15. 2 13. 2 13. 2 14. 9 16. 7 7 7 8. 8 8 14. 5 13. 1 12. 2 12. 6 13. 4 15. 3 13. 4 11. 2 20. 4 9. 8 11. 2 12. 2 12. 2 13. 2 13. 2 14. 9 9. 8 11. 2 12. 2 13. 2 14. 9 9. 8 11. 2 12. 2 13. 4 14. 5 15. 3 15. 3 15. 4 11. 2 15. 3 15. 3 15. 4 16. 3 17. 7 18. 2 19. 2 19. 2 19. 2 19. 2 19. 2 19. 2 19. 9 11. 9 19. 1	47, 049 285 172 172 183 1, 479 495 1, 473 1, 183 1, 082 297 1, 386 371 117 2, 394 1, 351 177 2, 394 1, 352 227 185 565 563 563 563 77 199 456 786 786 786 786 786 786 786 786 786 78
New Orleans New York Bronx Borough Brooklyn Borough Manhattan Borough Queens Borough Richmond Borough Newark, N. J. Norfolk 4 Oakland. Oklahoma City 6.6 Omaha Paterson Philadelphia	2, 217 5, 271 1, 746 2, 560 1, 195 2, 794 1, 675	10.6 13.9 10.7 16.6 11.7 10.1 13.2 11.9 13.2	2, 950 3, 746 692 172 737 235 232 149 310 189 3, 030	58 80 60 58 68 81 52 62 63 77	64 74 69 70 65 82 66 67 67 75	24, 577 30, 594 6, 513 1, 728 4, 982 1, 741 2, 767 1, 167 2, 650 1, 706 25, 263	11. 2 13. 5 11. 7 13. 2 11. 2 11. 2 11. 2	3, 216 3, 698 778 203 740 231 297 170 342 201 3, 105
Pittsburgh Portland, Oreg Providence	9, 366 3, 349 3, 262	14.9 11.9 13.3	1, 254 234 385	80 46 61	92 54 79	9,720 3,240 3,492	15. 5 11. 7 13. 3	1, 440 279 517

¹ Cities appearing in the summary are those shown for the 52 weeks in the Weekly Health Index.

2 Allowance has been made for the extra day, which must be added to the 52 weeks to give a period of

³⁶⁵ days.

3 Infant mortality rate is based upon deaths under 1 year as returned each week and estimated births,

Inflant mortality rate for the cities in the birth registration area, appearing in the summary.
 Inflant mortality rates are omitted, pending the establishment of more satisfactory estimates of population.
 Cities with no infant mortality rate are not in the registration area for births.

Number of deaths, death rates, and infant mortality in 7S large cities of the United States for 52 weeks of 1925 and comparison with 1924—Continued

	Total	Death	Deaths	Provi- sional infant	Infant mor-	Mortality data for cal- endar year 1924			
City	deaths	rate	under 1 year	mor- tality rate, 1925	tality rate, 1924	Total deaths	Death rate	Deaths under 1 year	
Richmond Rochester St. Louis 6 St. Paul Salt Lake City San Antonio 6 San Diego San Francisco Schenectady Seattle 6 Somerville Spokane Springfield, Mass Syracuse Tacoma Toledo Trenton Utica Washington, D. C Waterbury 6 Wilmington, Del Worcester Yonkers Youngstown	3, 808 11, 476 2, 954 1, 521 3, 020 1, 751 7, 303 1, 757 1, 1757 2, 169 3, 475 2, 472 2, 472 1, 440 2, 502 1, 102 1, 102 1, 103 1, 103	14.7 11.5 14.0 12.0 11.6 15.3 16.6 13.1 10.3 12.1 11.5 11.9 11.3 12.1 13.8 14.2 12.6 10.1	371 447 949 242 159 556 133 457 124 223 145 219 278 91 424 259 168 761 178 202 301 1444	90 64 41 42 54 52 60 73 75 617 41 83 74 91 97 97	55 56 56 66 66 55 57 69 69 69 83 81 77 91 77	2, 818 3, 623 10, 993 2, 977 2, 963 1, 677 2, 664 7, 484 1, 493 3, 312 2, 259 1, 457 1, 253 3, 283 1, 872 1, 572 1, 667 1, 465 1, 467	15. 3 11. 1 13. 5 12. 0 15. 6 17. 3 13. 6 10. 0 10. 0 11. 1 11. 7 12. 6 9. 9 13. 5 11. 7 12. 6 9. 9	382 385 1, 066 347 213 612 122 249 110 120 241 288 828 127 705 187 705 187 298 172 308	

⁵ Mortality rate, are omitted, pending the establishment of more satisfactory estimates of population.
⁶ Cities with no infant mortality rate are not in the registration area for births.

DEATHS DURING WEEK ENDED JANUARY 2, 1926

Summary of information received by telegraph from industrial insurance companies for week ended January 2, 1926, and corresponding week of 1925. (From the Weekly Health Index, January 5, 1926, issued by the Bureau of the Census, Department of Commerce)

Doparation of Community	Week ended Jan. 2, 1926	Corresponding week, 1925
Policies in force	62, 530, 137	58, 136, 497
Number of death claims	11, 655	10, 615
Death claims per 1,000 policies in force, annual rate	9. 7	9. 5

Deaths from all causes in certain large cities of the United States during the week ended January 2, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, January 5, 1926, issued by the Bureau of the Census, Department of Commerce)

Total deaths	rate week ended an. 2, 1926 ² 3 67 89 152
Akron 35	89 152 81 74
Albany 4 43 18.7 15 2 7 2 12 12 White 64 6 .	152 81 74
Atlanfa 105 12 12 White 64 6	81 74
White 64 (5) 6 6	74
Colored 41 (5) 6 27 21 White 191 20	74
Baltimore 4	74
White 191 20 20 Colored 64 (5) 7	74
Colored	113
70 1 17 71 00 0	
Birmingham 70 17.7 20.8 10 15	
Boston	66
Bridgeport	80
Buffalo 137 12.9 12.8 16 12 Cambridge 26 12.1 11.1 1 5	65 17
Camden 39 15.8 17.8 1	16
Chicago - 749 13.0 13.6 96 106	85
Cincinnati 129 16.4 16.4 7 15	41
Cleveland 206 11.5 11.9 19 26 Columbus 89 16.6 16.8 10 10	47 92
Columbus	92
White	
Dayton 42 12.7 11.2 7 1 Denver 91 16.9 15.4 11 11	110
Denver 91 16.9 15.4 11 11 11 Des Moines 25 8.7 10.8 0 0	·ō
Detroit 327 13 7 11 2 46 61	7 9
	0
Erie	58 102
Fall River 4 20.2 15.1 7 4 Flint 22 8.8 6.8 1 5	16
Fort Worth 31 10.6 10.3 2 6	
White 24 2 2 2 Colored 7 (5) 0	
Colored 7 (3) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	94
Houston 65 20.5 19.0 7 7	
White	
Colored 27 (3) 3 3 Indianapolis 109 15.8 14.5 4 10 White 94 1 1 1 1 Colored 15 (5) 3 3 1 Jersey City 88 14.6 14.7 21 14 Kansas City, Kans 35 14.7 19.4 6 4 White 29 2 2	28
Indianapolis	8
Colored 15 (5) 3 Jersey City 88 14.6 14.7 21 14	164
Jersey City. 88 14.6 14.7 21 14 Kansas City, Kans. 35 14.7 19.4 6 4	149
Kansas City, Kans	119
White 29 2 2 2 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2	45 737
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Los Angeles	57
Louisville 103 20.7 18.5 10 10 White 84	84
White 84 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	86 68
Colored 19 (*) 1 1 Lowell 37 16.6 10.7 4 5	69
Lynn 31 15.4 13.9 6 0	151
Memphis 54 16.1 24.5 8 5	
White 35 4 4 4 Colored 19 (5)	
Milwaukee	111
Minneapolis 97 11.9 13.6 12 10	64

¹Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1924. Cities left blank are not in the registration area for births.

^{**}Bata for 61 cities.

**Deaths for week ended Friday, Jan. 1, 1926.

**Deaths for week ended Friday, Jan. 1, 1926.

**Deaths for week ended Friday, Jan. 1, 1926.

**In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentage of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week onded January 2, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, January 5, 1926, issued by the Bureau of the Census, Department of Commerce)—Continued

	Week en 2, 1	ded Jan. 926	Annuai death rate per		under 1 or	Infant mortality rate
City	Total deaths	Death rate	1,000 corre- sponding week, 1925	Wcek ended Jan. 2, 1926	Corre- sponding week, 1925	week ended Jan. 2, 1926
Nashville 4	61 37	23. 3	18 0	7 5	8	
Colored	24	(5)		2 5		
New Bedford New Haven	36 50	13.9 14.6	12.7	5 3	4 3	82 39
New Orleans	176	22.1	13. 1 22 8	14	25	. 39
White	103			3		
Colored	73	(5)	[<u>-</u>	11		
New York Bronx Borough	1, 488 180	12.7 10.4	13. 5 10. 1	153 15	188 22	61 52
Brooklyn Borough	490	11.4	11.8	56	61	58
Manhattan Borough	639	14.8	15.8	61	77	64
Queens Borough	139	12.6	14.6	17	23	79
Richmond Borough Newark, N. J.	40 145	15. 6 16. 7	21. 0 13. 0	4 99	5 24	71
Norfolk	45	10. 7	10.0	22 2	4	100 37
White	26			0		Ö
Colored	19	(5) 15. 2		. 2 6		98
Oakland Oklahoma City	74 24	15.2	12.5	6 1	5	69
Omaha	64	15. 8	13 3	15	15	154
Paterson	47	17. 3	15.5	4	3	67
Philadelphia	553	14.6	15.7	44	89	55
Pittsburgh Portland, Oreg	172 75	14. 2 13. 8	18.5 16.4	19 2	30 8	63
Providence	92	19.6	15. 5	10	3	70
Richmond	54	15. 1	12.6	6	6	63 20 79 72
White	28 26			0		. 0
Colored Rochester	26 76	(5) 12.0	12. 9	6 7	5	215
St. Louis	261	16.6	15.6	18	18	56
St. Paul	59	12.5	12.9	2	7	17
St. Paul Salt Lake City 4	42	16.7	14.7	2	6	30
San Antonio	71 54	18.7 26.6	17. 4 20. 2	10	13	
San DiegoSan Francisco	165	15.4	16.6	6 2	2	140
Schenectady	24	12.2	9.2	0	i	12
Scattle	56			4	9 1 5 6	1 39
Somerville Spokane	18 41	9. 2 19. 6	12.3 13.9	3	6	79
Springfield, Wass	39	13.3	9.2	3	3	44
Springfield, Mass	43	11.7	12.8	3	11	38
Tacoma	32	16.0	11.5	2	9	47
Toledo	77 41	14.0 16.2	14.2 18.6	3 3 2 7 3	11	63
Trenton Washington, D. C. White	170	17.8	14.8	15	118	79 22 44 38 47 63 49
White	104			6		. 49
Colored	66	(5)		9 5		165
Waterbury Wilmington, Del	18 39	16.7	14.1	5 3	3	107
Worcester.	61	16.0	14.1	3	6 8 0	24
Yonkers	26	12.1	9,3	3		49 165 107 68 34 66
Youngstown	34	11.1	6.5	3	1	37
	1	ł	1	1	1	1

⁴ Deaths for week ended Friday, Jan. 1, 1926.
⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentage of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansso City, Kans. 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26 Norfolk 38, Richmond 32, and Washington, D. C., 25.

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

Reports for Week Ended January 9, 1926

ALABAMA	~	CALIFORNIA	
	Cases		Cases
Cerebrospinal meningitis.	2	Cerebrospinal meningitis:	
Chicken pox		Los Angeles	. 1
Dengue		Los Angeles County	. 1
Diphtheria		Oakland	. 1
Influenza		San Francisco	. 1
Malaria	7	Chicken pox	303
Measles		Diphtheria	83
Mumps	52	Influenza	355
Pellagra	13	Leprosy—Sonomo County	. 1
Pneumonia	186	Lethargic encephalitis—Redwood City	
Poliomyelitis	2	Measles	44
Scarlet fever	17	Mumps	286
Smallpox	16	Poliomyelitis—Tulare County	
Trachoma	6	Scarlet fever	165
Tuberculosis	38	Smallpox:	
Typhoid fever	9	Los Angeles	26
Whooping cough	20	Los Angeles County	10
		Oakland	12
ARIZONA		Sacramento	9
Chicken pox	11	Scattering	22
Diphtheria	18	Typhoid fever	11
Mumps	12	Whooping cough	102
Paratyphoid fever	2		IUA
Scarlet fever	10	COLORADO	
Tuberculosis	14	Chicken pox	78
Typhoid fever	3	Diphtheria	
Whooping cough	8.	Measles	
		Mumps	
ARKANSAS		Pneumonia	7
Chicken pox	17	Scarlet fever	31
Diphtheria	5	Smallpox	1
Hookworm disease	1	Tuberculosis	95
Influenza	126	Typhoid fever	3
Malaria	25	Whooping cough	12
Mumps	5		14
Pellagra	5	CONNECTICUT	
Scarlet fever	6	Chicken pox	113
Smallpox	2	Conjunctivitis (infectious)	20
Tuberculosis	5	Diphtheria	49
Typhoid fever	2	German measles	5
Whooping cough	4	Influenza	9

CONNECTICUT—continued	Cases	HLHNOIS—continued	Cases
Let hargic encephalitis		Lethargic encephalitis	2
Measles		Measies	357
Mumps	9	Pneumonia	495
Pneumonia (broncho)		Poliomyelitis:	
Pneumonia (lobar)		Adams County	1
Scarlet fever		Cook County	1
Septic sore throat		Fulton County.	1
Tuberculosis (all forms)		Jasper County	1
Typhoid fever		Richland County	462
Whooping cough	. 60	Smallpox:	202
DELAWARE		Champaign County	3
Chicken pox	. 3	Cook County	1
Diphtheria	. 6	Kane County	12
Influenza		Marshall County	6
Measles	. 29	McLean County	4
Pneumonia		Saline County	8
Scarlet fever		Winnebago County	3
Tuberculosis		Scattering	10
Whooping cough	. 2	Tuberculosis Typhoid fever:	172
FLORIDA		Cook County	4
Chicken pox	26	Franklin County.	5
Diphtheria		Scattering	21
Influenza	, 22	Whooping cough	205
Malaria			
Measles		INDIANA	
Mumps.		Chicken pox	97
Pneumonia		Diphtheria	58
Scarlet fever		Influenza	83
Smallpox		Measles.	202
Tuberculosis		Pneumonia.	33
Typhoid fever		Poliomyelitis Scarlet fever	1 188
Whooping cough	. 4	Smallpox	70
GEORGIA		Trachoma	4
Chicken pox	. 12	Tuberculosis	
Conjunctivitis (acute)	. 1	Typhoid fever	
Diphtheria		Whooping cough	
Hookworm disease		KANSAS	
Influenza			
Malaria		Cerebrospinal meningitis—Hutchinson	
Measles Mumps		Chicken pox	
Pellagra	-	Diphtheria	
Pneumonia		German measles	
Scarlet fever		Influenza Measles	
Septic sore throat		Mumps	
Smallpox		Pneumonia	
Tuberculosis	. 36	Scarlet fever	
Typhoid fever		Smallpox	
Typhus fever	. 1	Tuberculosis	
Whooping cough	. 9	Typhoid fever	
ILLINOIS		Whooping cough.	88
Carabasaninal maningities		LOUISIANA	
Cerebrospinal meningitis: Cook County	. 2	Diphtheria	30
Fulton County		Dysentery	
Kane County		Influenza	
Livingston County		Pneumonia	
Diphtheria:	_	Scarlet fever	
Cook County	. 84	Smallpox	
Peoria County		Tuberculosis	ħī
Scattering	. 28	Typhoid fever	. 15
Influenza	. 34	Whooping cough	. 7

MAINE	,	MINNESOTA	
	Cases		Cares
Chicken pox	22	Chicken pox.	188
Diphtheria	7	Diphtheria	85
German measles	3	Influenza	1
Influenza	3	Measles	31
Measles	4	Pneumonia	3
Mumps	22	Poliomyelitis	1
Pneumonia	17 2	Scarlet fever	332
Poliomyelitis	31	Smallpox	3 34
Scarlet fever	91	Tuberculosis	09 4
Typhoid fever	3	Typhoid fever	42
Vincent's angina	1	whooping cough	42
Whooping cough	8	MISSISSIPPI	
	ŭ	Diphtheria	13
MARYLAND 1	150	Scarlet fever	8
Chicken pox	176	Smallpox	8
Diphtheria	26 1	Typhoid fever	3
Dysentery	3	MISSOURI	
Influenza	82	Chicken pox	112
Lethargic encephalitis	1	Diphtheria	80
Malaria.	1	Influenza	39
Measles	690	Measles	29
Mumps		Mumps	61
Pneumonia (broncho)	83	Pneumonia	32
Pneumonia (lobar)	86	Scarlet fever	210
Scarlet fever	43	Smallpox	17
Septic sore throat	1	Trachoma.	1
Trachoma	1	Tuberculosis	51
Tuberculosis	68	Whooping cough	43
Typhoid fever	7	MONTANA	
Vincent's angina		Chicken pox	29
Whooping cough		Diphtheria	
MASSACHUSETTS		Measles	
	. 4	Mumps	
Cerebrospinal meningitis		Scarlet fever	20
Chicken pox		Smallpox	
Diphtheria.		Tuberculosis	
German measles		Typhoid fever	
Hookworm disease		Whooping cough	24
Influenza		NEBRASKA	
Lethargic encephalitis		Chicken pox	. 32
Measles.		Diphtheria	
Mumps		Influenza.	
Ophthalmia neonatorum	. 18	Measles	. 3
Pellagra	. 1	Mumps	
Pneumonia (lobar)	234	Pneumonia	
Poliomyelitis		Scarlet fever	
Scarlet fever		Feptic sore throat	
Septic sore throat		Smallpox	
Tetanus		Tuberculosis	
Trachoma		Whooping cough	. 17
Tuberculosis (pulmonary)		NEW JERSEY	
Tuberculosis (other forms)	26	Anthrax	-
Typhoid fever		Cerebrospinal meningitis	
Whooping cough	. 393	Chicken pox	
MICHIGAN		Diphtheria	
Diphtheria		Influenza	
Measles		Measles	
Pneumonia		PneumoniaPoliomyelitis	
Scarlet fever		Scarlet fever	
Smallpox Tuberculosis		Trachoma	
Typhoid fever		Typhoid fever	
Whooping cough		Whooping cough	
14 HOODING COURT		1 11 WALTER CAMBITY SWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	

¹ Week ended Friday.

NEW YORK	I	PENNSYLVANIA—continued	
(Exclusive of New York City)	.	Diphtheria—Continued	Cases
	ases	Pittsburgh	35
Cerebrospinal meningitis	1	Scattering	94
Diphtheria	109	German measles	14
Influenza	1	Impetigo contagiosa	11
Lethargic encephalitis	1 948	Lethargic encephalitis-Philadelphia	2
Measles	507	Measles	1,509
Pneumonia	3	Mumps	131
Poliomyelitis	281	Pellagra—Philadelphia	1
Smallpox	3	Pneumonia	100
Typhoid fever	50	Poliomyelitis:	
Whooping cough	327	Pittsburgh.	1
	02.	Scattering	2
NORTH CAROLINA		Scables	5
Chicken pox	155	Scarlet fever	574
Diphtheria	53	Smallpox—Rochester	1
German measles	3	Trachoma	2
Measles	54	Tuberculosis	102
Poliomyelitis	1	Typhoid fever	27
Scarlet fever	55	Whooping cough	285
Septic sore throat	2	RHODE ISLAND	
Smallpox	28		
Typhoid fever	11 56	Chicken pox	4
w noohing congu	- 50	Diphtheria German measles	16 12
OKLAHOMA		Influenza	8
(Exclusive of Tulsa and Oklahoma City)		Measles	423
(Exercisive or 1 also and Originalization City)		Ophthalmia neonatorum	2
Chicken pox	31	Paratyphoid fever—Providence	1
Diphtheria	28	Pneumonia.	1
Influenza	281	Scarlet fever	10
Measles	4	Tuberculosis	
Mumps	7	Whooping cough	3
Pneumonia	158		_
Scarlet fever	26	SOUTH DAKOTA	
Smallpox	8	Chicken pox	2
Typhoid fever	12	Diphtheria	
Whooping cough	19	Measles	
OREGON '		Mumps	
Cerebrospinal meningitis	4	Pneumonia	
Chicken pox	35	Poliomyelitis	
Diphtheria	37	Scarlet fever	
Influenza	7	Smallpox Whooping cough	
Measies	7	W nooping cought	12
Mumps	43	TENNESSEE	
Pneumonia	28	Chicken pox	38
Poliomyelitis	1	Diphtheria	
Scarlet fever	54	Influenza	
Smallpox:		Malaria	. 7
Albany	8	Measles	70
Bend	24	Mumps	
Josephine County	8	Pellagra	
Scattering	17	Pneumonia	
Tuberculosis	11	Scarlet fever	
Typhoid fever	6	Smallpox	2
Whooping cough:	20	Tuberculosis	
Pennsylvania		Typhoid fever	
Anthrax—Philadelphia	1	Whooping cough	. 6
Cerebrospinal meningitis—Philadelphia	1	TEXAS	
Chicken pox	730	Chicken pox	. 36
Diphtheria:	,,,,,	Diphtheria	
Erio	9	Influenza	
Philadelphia	49	Measles	2
Deaths.			*.

TEXAS—continued	,	WASHINGTON—continued	
	Cases	Smallpox:	Cases
Mumps		Everett	. 14
Pellagra		Tacoma	19
Pneumonia	4	Scattering.	25
Scarlet fever	- 1	Tuberculosis	. 5
Smallpox		Typhoid fever	. 1
Tetanus.		Whooping cough	. 33
Tuberculesis		WEST VIRGINIA	
Typhoid fever			•
Whooping cough	. 34	Diphtheria	
UTAH		Scarlet fever	. 7
O TALLE		WISCONSIN	
Cerebrospinal meningitis—Salt Lake City.,,	. 2	Milwaukee:	
Chicken pox	108	Chicken pox	
Diphtheria		Diphtheria	
Measles		German measles	
Mumps		Influenza	
Pneumonia		Meesles	
Scarlet fever		Mumps Pneumonia	
Smallpox		Scarlet fever	
Tuberculosis		Tuberculosis	
Typhoid fever		Whooping cough	
Whooping cough	. 32	Scattering:	
VERMONT		Chicken pox	. 158
	_ 89	Diphtheria	
Chicken pox.	_	German measles	
Diphtheria	_	Influenza.	
Mumps		Measles	142
Scarlet fever	-	Mumps	. 96
Whooping cough		Pneumonia	. 12
1. montanto Anathana 4488 4644 444 44 444 444 444 444 444 44		Poliomyelițis	. 1
VIRGINIA		Scarlet fever	172
Smallpox	_ 8	Smallpox	
	_	Tuberculosis	
WASHINGTON		Typhoid fever	
Comphessinol maningities		Whooping cough	- 64
Cerebrospinal meningitis: Lincoln County	. 1	WYOMING	
Seattle		Chicken pox	- 7
Chicken pox.		Diphtheria	
Diphtheria		Measles	
German measles	-	Mumps	
Measles		Pneumonia	
Mumps		Scarlet fever	
Pneumonia		Smallpox-Albany	. 2
Scarlet fever	. 72	Whooping cough	- 17
The and a few 777	1 . 13	. J. J. T D. 1000	
Reports for W	eek Ei	nded January 2, 1926	
DISTRICT OF COLUMBIA		NORTH DAKOTA—continued	
	Cases		Cases
Chicken pox		Scarlet fever	
Diphtheria		Smallpox	
Influenza		Whooping cough	. 7
Measles		SOUTH CAROLINA	
Pneumonis		Dengue	_ 3
Scarlet fever	- 19 -7	Diphtheria	_ 26
Tuberculosis		Influenza	
Whooping cough	- *	Malaria	" 68
NORTH DAKOTA		Measles	. 6
Chicken pox		Poliomyelitis	. 1
Diphtheria		Scarlet fever	
German measles		Smallpox	
Measles		Tuberculosis	. 35
Mumps		Typhoid fever	. 15
Pneumonia	- 3	Whooping cough	_ 40

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Cere- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
May, 1925 Tennessee July, 1926	2	22	160	69	438	22	1	121	179	100
Iowa		20			5	ļ	8	24	13	3
November, 1925										
Hawaii Territory	1	29	3		44				1	2
December, 1925				l		İ				
Arizona Connecticut	4	11 185	38	2	3 787		1 2	49 276	0	15 30

PLAGUE-ERADICATIVE MEASURES IN THE UNITED STATES

The following items were taken from the reports of plague-eradicative measures from the cities named:

Los Angeles, Calif.	
Week ended Dec. 26, 1925:	
Number of rats trapped	2, 120
Number of rats found to be plague infected	0
Number of squirrels examined	439
Number of squirrels found to be plague infected	0
Number of mice trapped	2, 538
Number of mice found to be plague infected	0
Date of discovery of last plague-infected rodent, Nov. 6, 1925.	
Date of last human case, Jan. 15, 1925.	
Oakland, Calif.	
(Including other East Bay communities)	
Week ended Dec. 26, 1925:	
Number of rats trapped	537
Number of rats found to be plague infected	0
Totals:	
Number of rats trapped Jan. 1 to Dec. 26, 1925	79, 111
Number of rats found to be plague infected	21
Number of squirrels examined May 1 to Aug. 1, 1925	7, 277
Number of squirrels found to be plague infected	0
Number of mice trapped Jan. 1 to Dec. 26, 1925	29, 772
Date of discovery of last plague-infected rat, Mar. 4, 1925.	
Date of last human case, Sept. 10, 1919.	

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended December 26, 1925, 36 States reported 1,101 cases of diphtheria. For the week ended December 27, 1924, the same States reported 1,391 cases of this disease. Ninety-seven cities, situated in all parts of the country and having an aggregate population of more than 28,500,000, reported 683 cases of diphtheria for the week ended December 26, 1925. Last year for the corresponding week they reported 812 cases. The estimated expectancy for these cities was 1,300 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-three States reported 2,816 cases of measles for the week ended December 26, 1925, and 1,099 cases of this disease for the week ended December 27, 1924. Ninety-seven cities reported 2,385 cases of measles for the week this year, and 583 cases last year.

Poliomyelitis.—The health officers of 37 States reported 11 cases of poliomyelitis for the week ended December 26, 1925. The same States reported 36 cases for the week ended December 27, 1924.

Scarlet fever.—Scarlet fever was reported for the week as follows: 36 States—this year, 2,395 cases; last year, 2,762 cases. Ninety-seven cities—this year, 1,153 cases; last year, 1,341 cases; estimated expectancy, 1,027 cases.

Smallpox.—For the week ended December 26, 1925, 36 States reported 332 cases of smallpox. Last year for the corresponding week they reported 705 cases. Ninety-seven cities reported smallpox for the week as follows: 1925, 89 cases; 1924, 222 cases; estimated expectancy, 57 cases. Four deaths from smallpox were reported by these cities for the week this year—at Los Angeles, Calif.

Typhoid fever.—Two hundred and seventy-three cases of typhoid fever were reported for the week ended December 26, 1925, by 35 States. For the corresponding week of 1924, the same States reported 383 cases of this disease. Ninety-seven cities reported 51 cases of typhoid fever for the week this year and 193 cases for the corresponding week last year. The estimated expectancy for these cities was 76 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 91 cities, with a population of nearly 28,000,000, as follows: 1925, 820 deaths; 1924, 910.

City reports for week ended December 26, 1925

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1915 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

		GL4-L	Diph	heria	Influ	enza			
Division, State, and city	Population July 1, 1923, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine: Portland	73, 129	1	2	0	0	0	0	2	2
New Hampshire: Concord Nashua	22, 408 29, 234	0	0 1	0 4	0	6 0	0	1	2 1
Vermont: BarreBurlington	1 10, 008 23, 613	0	0 1	0	0	0	0	. 0	1 0
Massachusetts: Boston Fall River Springfield Worcester	770, 400 120, 912 144, 227 191, 927	52 1 7 13	65 5 5 4	15 4 0 5	2 2 0 0	1 0 0	116 14 1 160	9 0 0	22 4 2 12
Rhode Island: Pawtucket Providence	68, 799 242, 378	2 0	3 15	1 2	0	0	5 247	0	3 10
Connecticut: Bridgeport Hartford New Haven	1 143, 555 1 138, 036 172, 967	0 4 16	9 9 3	5 5 0	4 0 0	3 1 0	78 30 8	0 0 0	2 4 5
MIDDLE ATLANTIC									
New York: Buffalo New York. Rochester. Syracuse	536, 718 5, 927, 625 317, 867 184, 511	15 131 15 7	31 218 7 9	12 119 5 5	3 19 0 0	0 10 1 0	585 17 4	1 14 0 11	14 151 7
New Jersey: Camden Newark Trenton	124, 157 438, 699 127, 390	12 54 3	5 19 5	0 12 0	1 4 1	1 0 1	11 68 0	1 2 0	7 10 2
Pennsylvania: Philadelphia Pittsburgh Reading	1, 922, 788 613, 442 110, 917	151 31 15	74 29 5	50 10 1	0 0	4 1 0	56 13 0	11 1	65 24 2
EAST NORTH CENTRAL									
Ohio: Cincinnati Cleveland Columbus Toledo Indiana:	406, 312 883, 519 261, 082 268, 338	19 46 15 20	16 49 8 14	5 41 2 7	1 2 0 0	2 2 3 1	0 446 10 19	0 3 0 0	13 15 8 6
Fort WayneIndianapolis South Bend Terre Haute	93, 573 342, 718 79, 709 68, 939	15 3 1	5 16 2 3	16 1 3	0 0	0 0	30 0 1	0	10 0 1
Illinois: Chicago Peoria Springfield	2, 886, 121 79, 675 61, 833	107 20 7	173 2 3	59 0 0	11 0 1	2 0 1	29 0 2	4 3 2	44 5 1
Michigan: Detroit Flint Grand Rapids	1, 155, 000 117, 968 145, 947	61 3 1	74 12 5	53 2 0	6 0 1	0	249 1	0	33 1 3

¹ Population Jan. 1, 1920,

City reports for week ended December 26, 1925—Continued

			Diph	theria	Influ	enza			_
Division, State, and city	Population July 1, 1923, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Measles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
EAST NORTH CENTRAL— continued									
Wisconsin: Madison Milwaukee Racine Superior	42, 519 484, 595 64, 393 1 39, 671	5 120 5 0	2 22 22 1	0 28 5 0	0 0 0 0	0 0 0 0	1 1 0 0	0 4 1 0	0 13 0 0
WEST NORTH CENTRAL									
Minnesota Duluth Minneapolis St. Paul	106, 289 409, 125 241, 891	8 45 22	3 21 18	1 16 13	0 0 0	0 0 1	0 1 2	0 2 0	3 10 8
Davenport Sioux City Waterloo	61, 262 79, 662 39, 667	2 4	1 3 1	2 0 0	0 0 0		0 0 2	0	
Missouri: Kansas City St, Joseph St. Louis	351, 819 78, 232 803, 853	22 1 29	13 4 64	5 0 50	2 0 0	2 0 0	25 1 2	1 0 1	8
North Dakota: Fargo Grank Forks	24, 841 14, 547	6	1	0	0	0	0	5	0
South Dakota: Aberdeen Sioux Falls	15, 829 29, 206	0 5	0	0	0		0	10 0	
Nebraska: Lincoln Omaha	58, 761 204, 382	3 3	2 6	0 2	0	1 0	0	1 0	3 11
Kansas: Topeka Wichita	52, 555 79, 261	20	2 7	1 2	0	0	0	0	2
SOUTH ATLANTIC	13, 201	, ,	'			ľ	1]
Delaware: Wilmington	117, 728	3	3	7	0	0	0	0	5
Maryland: Baltimore	773, 580	67	31	10	10		112	55	30
Cumberland Frederick	32, 361 11, 301	0	2	0	0	3 0 0	0	0	3
District of Columbia: Washington Virginia:	1 437, 571	18	18	8	0	0	7	0	27
Lynchburg Norfolk Richmond	30, 277 159, 089 181, 044	16	1 3	ō	0	ō	0	0	3
Roanoke West Virginia	181, 044 55, 502	3	9	2	0	0	0	2 2	₽ 3
Charleston Wheeling	45, 597 1 56, 208	1 4	2 2	0	0	0	0	0	2 5
RaleighWilmington	29, 171 35, 719	0	1 0	1 2	0	0	0	0	000
Winston-Salem South Carolina; Charleston	56, 230 71, 245	0	1	5 0	0	0	6	0	t
Columbia Greenville Georgia:	39, 688 25, 789	5 1	1	ŏ	ő	Ö 0	ŏ	. 0	0 2
Atlanta Brunswick	222, 963 15, 937	3 0 2	0	6 0 0	15 0 12	0 0 3	0	0	8 1
Savannah Florida: St. Petersburg Tampa	89, 448 24, 403 56, 950	0	1 2	0	0	0	0	0	3

¹Population Jan. 1, 1920.

City reports for week ended December 26, 1925—Continued

			Diph	theria	Influ	ienza			
Division, State, and city	Population July 1, . 1923, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
EAST SOUTH CENTRAL									
Kentucky: Covington Louisville Tennessee:	57, 877 257, 671	0	2 9	0 3	0 2	0	1 5	0	0 11
Memphis Nashville	170, 067 121, 128	1 3	8 4	4 1	0	3 1	0 16	0	6 2
Alabama: Birmingham Mobile Montgomery	195, 901 63, 858 45, 383	0 6 1	4 1 0	3 1 2	* 4 1 0	1 1 0	0 0 0	0 0 3	7 1 0
WEST SOUTH CENTRAL Arkansas: Fort Smith	30, 635	0	2	0	0		1	0	
Little Rock Louisiana:	70, 916	Ô	2	٠2	0		0	0	
New Orleans Shreveport Oklahoma:	404, 575 54, 590	0	13 2	4 2	8	10 0	0	0	5
Oklahoma City Texas: Dallas	101, 150 177, 274	8	2 13	4	12	0	0	0	3 5
Galveston Houston San Antonio	46, 877 154, 970 184, 727	0	1 4 3	1	0	0	0	0	5
MOUNTAIN	101,121								
Montana: Billings Great Falls Helena Missoula	1 12, 037	14 7 0	0 2 0	0 0 4	0 0	0 0	0 0	7 48 0	0 0 2 0
Idaho: BoiseColorado:	22, 806	0	1	0	0	0	0	0	0
Denver Pueblo New Mexico:	272, 031 43, 519	20	12 4	3 6	0	3 0	3	0	14
Albuquerque Arizona:	16,648	4	1	1	0	0	0		0
Phoenix Utah: Salt Lake City	33, 899 126, 241	73	2	5	0	0	0	1	3
Nevada: Reno	12, 429	0	0	0	0	0	0	0	2
PACIFIC									
Washington: Seattle Spokane	1 315, 685 104, 573	27 21	7 5	2	0		4 0		
Oregon: Portland	101, 731 273, 621	2	3 7	18	0	0	0	6	0
California: Los Angeles Sacramento San Francisco	666, 853 69, 950 539, 038	20 4 22	38 2 24	10 1 15	8 3 7	*0	4 0 3	2 1 3	12 5 7

Population Jan. 1, 1920.

City reports for week ended December 26, 1925-Continued

	Scarle	t fever		Smallpo	x	Tuber-	Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis,	mated	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
NEW ENGLAND											
Maine: Portland	2	7	0	0	0	0	1	3	0	3	20
New Hampshire: Concord	0	0	0	0	0	0	0	0	0	0	10
Nashua Vermont:	1	0	0	0	0	1	0	0	0		8
Barre Burlington	2 1	0 2	0	0	0	0	0	0	0	0	8
Massachusetts: Boston	39 3	46 2	0	0	0	13	2 0	1 0	0	43 0	214 37
Fall River Springfield Worcester	8	9 13	0	0	0	2 2	0	0	0	0 12	35 66
Rhode Island: Pawtucket	1	1	0	0	0	0	0	0	0	0	15
Providence Connecticut:	8	7	6	0	0	1	1	0	0	6	64
Bridgeport Hartford	6 7	11	0	0	0	1	0	0	0	0	41 15
New Haven MIDDLE ATLANTIC	8	0	0	0	0	6	1	0	0	7	43
New York:											
Buffalo New York	23 164	24 108	0	0	0	1 82	12	17	1	15 52	112 1, 281
Rochester Syracuse New Jersey:	12 12	3	0	0	0	5 2	0	0	0	10 25	76 50
Camden Newark	3 16	13 15	1 0	0	0	2 8	1 2	0	0	2 15	37 101
Trenton Pennsylvania:	3	6	Ŏ	Ŏ	ŏ	3	ī	Ŏ	ŏ	Ö	31
Philadelphia Pittsburgh	57 32	61 47	0	0	0	37	1	0	0	23	521 160
Reading	1	5	0	0	0	3	1	0	0	2	38
CENTRAL											
Ohio: Cincinnati	. 13	15	0	0	0	4	0	0	o	5	125
Cleveland Columbus	.j 10	31 22	1	6	0	21 4	0	0	0	28 10	161 78
Toledo Indiana: Fort Wayne	14	7	0	0	0	1	. 0	2	0	1	57
Indianapolis South Bend	9 4	9	4	22 5	0	10	0	0	0	8 2	92 8
Terre Haute Illinois:	2	4	0	0	0	1	0	0	0	0	21
Chicago Peoria	115	124 6	0	3	0	0	6	0	0	12 6	590 20 25
Springfield Michigan: Detroit	77	91	3	3	0	23	3	0	0	32	259
Flint	8	9	0	Ŏ	ŏ	1 2	Ŏ 1	Ō	0	12 25	13 23
Wisconsin: Madison	2	4	0	0	0	0	0	0	0	4	5
Milwaukee Racine	29 5 2	6 0 2	1 1 2	0	0	3 1 0	0 0	0	0	23 2 0	76 9 5
Superior WEST NORTH CENTRAL	2	2	2								
Minnesota: Duluth		9	.	0	0		١.	0	0	.	21
Minneapolis St. Paul	5 40 19	51	1 6 4	0	0	5 5		0	0	3 0 3	79 63

¹ Pulmonary tuberculosis only.

City reports for week ended December 26, 1935—Continued

	Scarle	t fever	:	Smallpo	x	Tuber-	12	phoid f		W hoop-	
Division, State, and city	mated	Cases re- ported	Cases, esti- mated expect- ancy		Deaths re- ported	culo- sis. deaths re-	mated	Cases re- ported	D eaths re- ported	eough, cases re- ported	Deaths, all causes
WEST NORTH CENTRAL—COL.											
Iowa: Davenport Sioux City Waterloo	1 2 3	2 1 5	0	0 2 0			0 0	0		0	
Missouri: Kansas City St. Joseph St. Louis	11 2 31	13 2 87	1 0 1	0	0	8 0 7	1 0 2	1 0 1	1 0 0	3 0 4	89 22 227
North Dakota: Fargo. Grand Forks.	2 1	1	0	0	0	0	0	0	0	3	5
South Dakota: Aberdeen Sloux Falls Nebraska:	1 2	0 2	0	0			0	0		0	
Lincoln Omaha Kansas:	6	3 9	0 3	1 8	0	1 2	0	0	0	2 0	15 51
Topeka Wichita	3	1 3	0	0	0	0	0	0	0	0	12 26
SOUTH ATLANTIC											
Delaware: Wilmington Maryland:	3	2	0	0	0	2	1	0	0	0	23
Baltimore Cumberland Frederick District of Colum-	23 1 0	26 0 0	0 0 0	0 0 0	000	16 0 0	0 0	1 1 0	0 0	17 0 0	204 18 3
bia: Washington Virginia:	21	18	0	0	0	11	4	1	0	10	164
Norfolk	0 2 6 1	4 7 0	. 0 0 0	0 0	0 0	0 2 0	0 0 1 1	0	0 0	0 1 0	54 12
West Virginia: Charleston Wheeling	1 2	1 8	0	0	0	2	0	0	1 0	1 2	23 17
North Carolina: Raleigh Wilmington Winston-Salem	0 1	3 1 1	0	0 0 2	0	1 0	0	0) 0	0 8	15 8 15
South Carolina: Charleston Columbia Greenville	1 0	0 1 0	0 1 1	0 0 1	0	3 0 1	1 0 0	0	0	0	26 12
Georgia: Atlanta Brunswick	4 0	5	1 0	2 0	0	20	1 0	3 0	0	0	59
Savannah Florida:	. 1	1	0	0	0	0	1	0	1	0	37
St. Petersburg. Tampa EAST SOUTH CEN-	0	0	0	0			- 6			·	10
TRAL Kentucky:				0	0			٥			6
Covington Louisville Tennessee: Memphis	2 4	3 0 21	0	0	0	6	1	Ó	0	0	96
Nashville Alabama:	- 2	4	0	0	0	2	0	1	0	0	30
Birmingham Mobile Montgomery	1 1	0 0	0		0	1 0	0	Õ) 0	0	

City reports for week ended December 26, 1925—Continued

	Scarle	t fever	1	Smallpo	x	Tuber-	Ту	phoid fe	over	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	eulo- sis, deaths re-	mated	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST SOUTH CENTRAL											
Arkansas: Fort Smith Little Rock Louisiana:	1 2	0 2	1	0			0	0		0	
New Orleans Shreveport Oklahoma:	5 0	5 1	0	0	0	13 1	3	1 0	0	1 0	152 23
Oklahoma City Texas:	2	2	0	0	0	0	0	0	0	0	19
Dallas Galveston Houston	3 1 2	11 0	0	0	0	1	1 0 0	0	0	10 0	40 27
San Antonio	ĩ	0	ŏ	0	0	4	ŏ	0	0	0	47
MOUNTAIN									ĺ		
Montana: Billings Great Falls Helena Missoula	1 1 1 0	8 1 0 1	0 0 0	0 0	0 0 0	0 0 0 1	0 1 0 0	1 0 0	1 0 0	2 7 0	7 3 8 4
Idaho: Boise	1	0	0	1	0	0	0	0	0	1	2
Colorado: Denver Pueblo	10 3	8 2	5 0	0	0	5 0	0	0	0	29 0	62 7
New Mexico: Albaquerque Arizona:	0	3	0	0	0	3	0	0	0	7	10
Phoenix Utah:		3		0	0	13		. 0	0	0	24
Salt Lake City. Nevada:	4	3	2	0	0	0	0	1	0	5	31
Reno	1	0	0	0	0	0	0	0	0	0	5
PACIFIC											
Washington: Seattle Spokane Tacoma	7 5 2	18 27	2 4 1	2 2			0 0	0		. 2 0	
Oregon: Portland	7	19	6	4	0	1	0	0	0	0	
California: Los Angeles Sacra Sacra San Francisco	18 2 12	8 3 8	2 1 1	28 5 0	4 0 0	14 1 11	3 0 2	2 0 1	, 0	0	183 19 43

City reports for weck ended December 26, 1925—Continued

	Cerebi men	rospina! ingitis	Let! ence;	nargic Skalitis	Pel	lagra	Polion tile	yelitis paraly	(infan- sis)
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
NEW ENGLAND									
Massachusetts:									_
Boston	0	0	1	2	0	0	0	0	0
MIDDLE ATLANTIC									
New York: Buffalo	0	0	0	0	0	0	0	2	0
New York Pennsylvania:	1	1	5	4	0	0	1	0	0
Philadelphia Pittsburgh	0	0	3	1 0	1 0	1 0	0	0	. 0
EAST NORTH CENTRAL									
Ohio:	1	١,	0	0					١.
Columbus	İ	1	1		0	C	0	0	Ð
Detroit	0	0	1	1	0	0	0	0	0
WEST NORTH CRNTRAL									
Missouri: Kansas Cityst. Louis	0	0	à	0	0	0	0	0	1 0
SOUTH ATLANTIC									
District of Columbia: Washington		0	1 0	0	1	1	0		0
North Carolina: Winston-Salem	ì	į	0	į.		1	Į.	١.	-
South Carolina:	i	0	į.	0	1	1	0	0	0
Charleston Greenville	0	0	0	0	0	1	0	0	0
Georgia: Atlanta	. 0	0	0	0	0	1	0	0	0
Savannah	. 0	0	0	0	0	1	0	0	0
EAST SOUTH CENTRAL					_		 		<u></u>
Alabama: Birmingham	. 0	1	0	0	0	0	0	0	0
WEST SOUTH CENTRAL		-							
Louisiana:									
New Orleans	1	0	0	0	1	1	0	0	0
Oklahoma City Texas:	. 0	0	0	0	0	1	0	e	6
Dallas	. 0	0	0	0	0	1	0	0	0
MOUNTAIN									
Utah: Salt Lake City	. 1	2	a	0	0	a	0	0	0
PACIFIC				l					
Oregon: Portland	1	0	0	0	0	0	0	a	
Camornia:	1	1	-			1	1		1
San Francisco	- 0	1	0	0	0	1 0	0	1 "	0

The following table gives the rates per 100,000 population for 103 cities for the 10-week period ended December 26, 1925. The population figures used in computing the rates were estimated as of July 1, 1923, as this is the latest date for which estimates are available.

The 103 cities reporting cases had an estimated aggregate population of nearly 29,000,000, and the 96 cities reporting deaths had more than 28,000,000 population. The number of cities included in each group and the aggregate populations are shown in a separate table below:

Summary of weekly reports from cities, October 18 to December 26, 1925-Annual rates per 100,000 population 1

DIPHTHERIA CASE RATES

	Week ended									
	Oct. 24	Oct. 31	Nov.	Nov. 14	Nov. 21	Nov. 28	Dec.	Dec.	Dec 19	Dec. 26
103 cities	3 168	3 182	166	174	181	159	171	164	4 163	5 125
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	6 97 129 189 259 9 268 109 102 372 142	137 149 195 282 228 97 264 3 176 157	97 126 187 267 211 137 199 286 148	127 141 194 240 252 69 213 248 145	144 143 189 226 289 132 176 315 186	104 150 162 178 221 120 181 134 165	124 137 172 280 221 126 278 239 128	107 139 166 243 205 132 185 172 200	137 147 161 180 205 97 1253 181 186	92 108 7 159 8 188 10 102 80 11 97 172

MEASLES CASE RATES

			1	1				1	1	
103 cities	2 93	³ 105	154	174	229	212	353	441	4 531	5 436
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mouncain Paoific	6 599 87 47 10 9 40 40 14 29 12	604 110 57 12 59 17 5 3 20 15	852 159 74 15 154 17 9 38	937 171 88 10 232 17 9 47 20	1, 130 256 103 15 289 51 9 29 32	827 239 124 31 353 34 5 10 26	1, 583 339 255 19 552 40 5 10 58	2, 025 453 307 25 576 23 5 38 55	2, 159 520 503 37 609 86 4 10 29 81	1, 637 384 7 571 8 71 10 265 126 11 11 29 12 34
			1		,		1	1		l .

SCARLET FEVER CASE RATES

Middle Ätlantic. 96 106 111 142 144 149 16 East North Central 142 194 167 189 196 220 27 West North Central 296 305 384 400 421 454 43 South Atlantic. 134 193 185 172 123 144 18 East South Central. 132 80 109 183 137 183 17 West South Central. 42 42 102 121 93 139 11 Mountain. 115 315 175 172 181 162 172 249 Pacific. 133 148 162 206 197 249 22	3 173 3 302 3 493 7 162 7 120 1 148 8 162	173 19 302 36 493 4 162 16 120 19 148 4 9 162 26	99 248 90 146 70 7 246 71 8 450 64 10 166 26 183 93 11 102 96 219 97 219 98 12 197
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¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1923.
¹ Two cities not included.
¹ Helens, Mont., not included.
¹ Shreveport, La., not included.
¹ Shreveport, La., not included.
¹ Fort Wayne, Ind., Grand Forks, N. Dak., Lynchburg, Va., Tampa, Fla., Houston, Tex., and Tacoma, Wash., not included.
¹ Barre, Vt., not included.
¹ Fort Wayne, Ind., not included.
² Grand Forks, N. Dak., not included.
² Winston-Salem, N. C., not included.
¹ Lynchburg, Va., and Tampa, Fla., not included.
¹ Lynchburg, Va., and Tampa, Fla., not included.
¹ Houston, Tex., not included.
¹ Tacoma, Wash., not included.

Summary of weekly reports from cities, October 18 to December 26, 1925-Annual rates per 100,000 population-Continued

SMALLPOX CASE RATES

ALEX TO A STATE OF THE STATE OF					Weck e	ended—				
	Oct. 24	Oct. 31	Nov.	Nov. 14	Nov. 21	Nov. 28	Dec.	Dec. 12	Dec. 19	Dec. 26
103 cities	27	3 10	10	8	17	16	13	21	4 21	ē 16
New England Middle Atlantie. East North Central West North Central South Atlantie. East South Central West South Central Mountain Pacific	6 7 0 4 4 9 0 6 0 10 78	0 0 17 27 6 6 0 3 10 46	0 12 12 12 29 0 19	0 0 13 4 6 34 0 19 44	0 9 32 17 21 11 0 19 78	0 0 32 10 2 11 9 10	0 0 14 19 4 11 14 0 110	0 0 34 19 8 6 9 105 131	0 1 27 37 12 11 424 35 119	0 7 27 \$ 21 10 11 0 11 0 10 11 12 114
	TYP	HOID	FEVE	R CAS	E RAT	res				
103 cities	2 33	3 26	28	12	17	14	20	20	4 16	i 9
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	6 15 25 9 33 9 78 160 83 67 32	17 21 16 19 27 109 83 3 88 20	22 12 19 31 64 183 51 38	2 8 9 17 10 46 60 10	20 3 15	17 14 4 8 29 23 32 19 15	22 26 8 10 21 57 42 0	22 25 12 12 25 29 32 19	10 17 14 15 18 29 129 10 17	10 11 7 7 5 4 10 13 6 11 11 19
	IN	FLUE:	NZA D	EATH	RAT	ES	<u> </u>	•	•	
96 cities	28	2 11	13	12	8	9	12	13	4 14	b 13
New England. Middle Atlantic. East North Central West North Central South Atlantic. East South Central West South Central Mountain Pacific	6 20 38	12 10 7 11 6 29 41 3 10	5 14 12 7 18 40 15 10	. 14	2 6 6 2 14 46 10 19	12 8 5 2 10 29 36 10 4	10 10 7 7 18 46 41 19 4	10 12 12 7 8 - 51 46 19 4	15 8 18 4 10 57 38 0	12 9 7 8 10 19 34 11 60 22 12 16
	· PN	EUMC	NIA I	DEATE	I RAT	ES				
96 cities	² 96	1 122	141	138	151	130	149	134	4 153	1140
New England. Middle Atlantic. East North Central. West North Central. South Atlantic. East South Central. West South Central. West South Central. Mountain. Pacific.	9 124 132	112 137 119 99 134 114 138 * 78	139 153 125 88 207 166 163 105 95	137 144 137 83 162 - 177 122 181 114	144 160 146 103 156 240 163 229 91	161 145 100 83 144 194 158 162 102	186 161 149 55 170 143 163 162 102	137 132 121 85 185 200 219 181 79	164 148 139 136 213 234 194 124 102	171 146 7 106 101 20 221 154 21 174 210

² Two cities not included.
³ Helens, Mont., not included.
⁴ Shreveport, La., not included.
⁴ Shreveport, La., not included.
⁵ Fort Wayne, Ind., Grand Forks, N. Dak., Lynchburg, Va., Tampa, Fla., Houston, Tex., and Tacoma, Wash., not included.
⁶ Barre, Vt., not included.
⁷ Fort Wayne, Ind., not included.
⁸ Grand Forks, N. Dak., not included.
⁹ Winston-Salem, N. C., not included.
¹⁰ Lynchburg, Va., and Tampa, Fla., not included.
¹¹ Houston, Tex., not included.
¹² Tacoma, Wash., not included.

Number of cities included in summary of weekly reports and aggregate population of cities in each group, estimated as of July 1, 1923

Group of cities	Number of cities reporting cases	Number of cities reporting deaths	Aggregate population of cities reporting cases	Aggregate population of cities reporting deaths
Total	103	96	28, 977, 311	28, 321, 626
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	12 10 16 14 21 7 8 9 6	12 10 16 11 21 7 6 9	2, 098, 746 10, 304, 114 7, 135, 899 2, 515, 330 2, 542, 498 911, 885 1, 124, 564 546, 445 1, 797, 830	2, 098, 746 10, 304, 114 7, 135, 899 2, 381, 454 2, 542, 498 911, 886 1, 023, 013 546, 445 1, 377, 572

FOREIGN AND INSULAR

THE FAR EAST

Report for week ended December 12, 1925.—The following report for the week ended December 12, 1925, was transmitted by the far eastern bureau of the health section of the League of Nations' secretariat, located at Singapore, to the headquarters at Geneva:

Port	Pla	gue	Cho	olera	Sma	llpex
rort	Cases	Deaths	Cases	Deaths	Cases	Deaths
Bombay. Madras Rangoon Karachi Negapatam Colombo Basra Singapore Port Swettenham Penang Batavia Soerahaya Samarang Belawan Deli Pedang (Sumatra) Sabang (Rhio) Macassar Pontianak (Borneo) Sandakan (North Borneo) Kuching (Sarawak) Manila Bangkok Saigon and Cholon Hongkong Shanghai Amoy Nagasakh Yokohama Simonoseki Moji Kobe Osaka Keelung Fusan Dairen Adelaide Brisbane Fremantle Melbourne Sydney Rockhampton Townsville Port Darwin Broome Port Moresby Honolulu Suez Port Moresby Honolulu Suez Port Moresby Honolulu Suez Port Moresby Honolulu Suez Port Moresby Honolulu Suez Suez Port Moresby Honolulu Suez Port Moresby Honolulu Suez	Cases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Deaths 10 00 00 00 00 00 00 00 00 00 00 00 00	Cases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Deaths 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cases 76 62 2000 15 00 00 00 00 00 00 00 00 00 00 00 00 00	,
Alexandría Port Said Mombassa (Kenya) Zanzibar Massowah Djibuti Lourenco-Marques Durban East London Port Elizabeth Cape Town Port Louis (Mauritius) Seychelles	0 0 0 0 0 0 0 0 0 0 0 0 0 7	000000000000000000000000000000000000000		000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000

CUBA

Malaria—Santiago.—During the period November 29 to December 19, 1925, 119 cases of malaria with 7 deaths were reported at Santiago de Cuba. Under date of December 22, 1925, 197 cases of malaria were reported present.

ECUADOR

Plague—Guayaquil—December 1-15, 1925.—During the period December 1 to 15, 1925, five cases of plague with two deaths were reported at Guayaquil, Ecuador. During the same period, of 11,958 rats taken at Guayaquil, 71 were found plague infected.

MADAGASCAR

Plague—September 16-30, 1925.—During the period September 16 to 30, 1925, 46 cases of plague with 43 deaths were reported in the island of Madagascar. Of these the urban occurrence was reported as follows: Miarinarivo, Province of Itasy, 3 cases (bubonic, 2; pneumonic, 1); Tananarive, 2 cases, 1 bubonic and 1 septicemic; Tamatave (port), 3 cases (bubonic).

October 1-31, 1925.—During the month of October, 1925, 177 cases of plague with 161 deaths were reported in the island of Madagascar. The urban occurrence was reported as follows: Miarinarivo, Province of Itasy, cases 17, deaths 17 (bubonic, pneumonic, and septicemic); Tananarive, cases 7, deaths 6 (bubonic, pneumonic, and septicemic). For distribution according to Provinces, see page 109.

MALTA

Communicable diseases—November, 1925.—During the month of November, 1925, communicable diseases were notified in the island of Malta as follows:

Disease	Cases	Disease	Caşes -
Broncho-pneumonia Chicken pox Diphtheria Influenza Malta (undulant) fever	3 10 11 2 52	Measles Pneumonia Poliomyelitis Smallpex Typhoid fever	7 1 14 51

Population, civil (estimated), 223,088.

MAURITIUS

Plague—September, 1925.—During the month of September, 1925, a fatal case of plague was reported in the island of Mauritius.

UNION OF SOUTH AFRICA

Plague—Typhus fever—October, 1925.—Plague and typhus fever have been reported in the Union of South Africa as follows: Plague—Cape Province, week ended November 21, 1925, one case occurring in a native on a farm in the Steynsburg District. Typhus fever—Month of October, 1925, 88 cases with 7 deaths occurring among the colored population and 7 cases in the European population. For distribution of occurrence according to locality see pages 109, 110.

CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

Reports Received During Week Ended January 15, 1926 ¹

CHOLERA

Place	Date	Cases	Deaths	Remarks
India: Calcutta Madras Philippine Islands Manilo Province— Bulacan Pampanga Rizal Siarn: Bangkok	Nov. 15-21 Nov. 22-28 Nov. 9-22 Oct. 18-Nov. 7 Nov. 1-7 Sept. 27-Oct. 24 Nov. 8-14	22 1 4 92 1 70 23	22 1 3 64 1 21	As currently reported; subject to later correction. Do.

PLAGUE

Ceylon	Nov. 15-21	2	2	
China: Nanking	Nov. 15-Dec. 5			Prevalent.
Ecuador: Guayaquil	Dec. 1-15	5	2	Rats taken, 11,958; found in- fected, 71.
India: Madras Presidency	Oct. 25-31	42	25	
Java: Batavia Socrabaya	Nov. 14-20 Oct. 25-Nov. 7	107 8	100 7	Province. Sept. 16-30, 1925; Cases, 46;
Madagascar Fort Dauphin Province Itasy Province	Sept. 16-30	2 3	1 3	deaths, 43. Bubonic. Bubonic, 2; pneumonic, 1. At
Moramanya Province Tamatave (port) Madagascar	do	1 3	1 2	Misrinarivo. Bubonic. Do. October, 1925: Cases, 177; deaths.
Fort Dauphin	Oct. 1-15	3	1	 Bubonic, pnéumônic, and septicemic.
Itasy Province Moramanga Province Tamatave (port)	Oct. 16-31	16 4	17 16 4	At Miarinarivo.
Tananarive Province Mauritius. Union of South Airica:	Oct. 1-31	137	123	September, 1925: One fatal case.
Cape Province— Steynsburg District	Nov. 15-21	1		Native. On farm.

¹ From medical officers of the Public Health Service, American consuls, and other sources.

CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER—Continued Reports Received During Week Ended January 15, 1926—Continued SMALLPOX

~			-	
Place	Date	Cases	Deaths	Remarks
Arabia:		`		
Aden	Nov. 29-Dec. 5	1		Imported.
Brazil: Rio de Janeiro	Nov. 15-28	63	32	
British South Africa:	1907. 10-20	00	02	
Southern Rhodesia	Nov. 13-19	1		Native.
Canada: Alberta—				
Calgary	Dec. 13-19	1		From Drumheller, vicinity of Calgary.
China:				- •
Amoy				Present.
Antung Chungking	Dec. 7-13	1		Do.
Manchuria—	1			100.
An-shan	Dec. 6-12	1		
Dairen	Oct. 26-Nov. 15	2 1		
Mukden	do	2		
Tich-ling Nunking Shanghai	Nov. 21-Dec. 5		i	Do.
Shanghai	Nov. 15-21	2		_
Swatow	Nov. 22-Dec. 5			Pievalent.
Great Britain: England and Wales	Nov. 15-Dec. 12	432		
Hull	Dec. 6-12	6		
India:	!			
Bembay	Nov. 15-21	4 9	1 5	
Calcutta Madras	Nov. 22-28	2	0	
Japan:				
Taiwan	Nov. 11-20	1		
Malta Mexico	Nov., 1925	14		
Aguascalientes	Dec. 20-26		2	
Persia:	1	t i		
Teheran	July 23-Aug. 23		68	
Portugal: Lisbon	Nov. 16-Dec. 6		31	
	1		1	
	TYPHUS	FEVE	R	
		1		1
China:		1		
Antung	Nov. 29-Dec. 6	4	1	
Mexico:	Dog 93 98		1	
Guadalajara Mexico City	Dec. 6-12	12		Including municipalities in Fed-
MIDATO CAUSTILLIANIA				eral district.
Palcetine:	37 04 00	١.		1
Safad	NOV. 24-30	1		
Union of South Africa		1		October, 1925: Cases, 88; deaths,
		1		7 (colored); cases, 7 (European
Cape Province		1		population).
	i .	1	1	Oct. 1-31, 1925: Cases, 63; deaths, 5 (colored).
Natal				Oct. 1-31, 1925: One case (col-
1	1	1	l	ored).
Orange Free State		-	-	Oct. 1-31, 1925: Cases, 23; 1 death
Transvaal				(colored). Oct. 1-31, 1925; One case, 1
		1	1	death.

CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER—Continued Reports Received from December 26, 1925, to January 8, 1926 ¹ CHOLERA

Place	Date	Cases	Deaths	Remarks
India				Oct. 18-31, 1925: Cases, 3,027;
a 1	37 1.1			deaths, 1,785.
Calcutta	Nov. 1–14 Nov. 15–21	36 2	25	
Madras Rangoon	Nov. 8-14	2	2 2	
Innan	Aug. 30-Sept. 19	121	- 1	
Japan Russia	May-June	7		
Siam:	1			
Bangkok	Oct. 4-31	60.	30	Infection stated to have been imported on vessel.
On vessel	Nov. 1-7	25	31	F
Steamship —	Oct. 3	8		Arrived at Bangkok, Siam; 9 cases in coolic passengers.
	PLA	GUE	<u> </u>	
Brazil·		,		
Bahia	Nov. 8-14	2		
Santos.	Dec. 8-21		2	
Ecuador: Guayaquil	Nov. 1-30	10	6	Data tales Normand a see
Guayaquii	NOV. 1-30	10	ŭ	Rats taken, November, 1925: 24,618; rats found infected, 143.
Egypt				January 1-November 19 1091
				January 1-November 18, 1925; Cases, 137. Corresponding period, 1924; Cases, 360.
				riod, 1924; Cases, 360.
Beni Suef	Nov. 18, 1925	1	1	
Greece:				
AthensPatrasIndia	Nov. 1-30	18	4	Including Piraeus.
Patras	Nov. 13	1		Oot 10 21 1005 Care 0 504
шиа				Oct. 18-31, 1925; Cases, 2,584; deaths, 1,696.
Karachi	Nov. 1-14	3	2	Cicares, 1,000.
Rangoon	Nov. 1-14 Oct. 25-Nov. 14	ğ	3	
Java:	f :			
Batavia	Oct. 24-Nov. 6	94	89	Province.
Cheribon	Sept. 27-Oct. 17		166 42	
Pekalongan Soerabaya	Oct. 11-24	13	13	
Tegal	Sept. 27-Oct. 17	6	6	
Madagascar:	Deporter Course	ľ	,	
Province—	l	{	l	
_ Tananative	Sept. 16-28	37	36	
Town— Tananaive	a a	2	2	-
Mauritius Island	Sept. 20-Oct. 17		5	
Russia	May-June	67		
Senegal	September, 1925	22	12	1
Siam	Aug. 23-Sept. 5	23	20	
Syria:			ł	
Beirut	Nov. 11-20	1		
	SMAI	LPOX		·
	1	1	ī	1
Argentina:	1	1		
Rosario	October, 1925		. 1	1
Brazil: Rio de Janeiro	Nov. 1-14	71	40	†
Canada:	_ INDV. 1-14	1 12	40	1
Manitoba—	1		1	Į.
Winnipeg	Dec. 13-19	. 2		.}
New Brunswick—	1	1 .	1	
Northumberland	Dec. 6-13	. 1		
Ontario—	Dog 6 10	. 2	1	1
Ottawa	Dec. 6-12	2		†
China: Foochow	Nov. 1-14		1	Present
Hankow	Nov. 14-21	3		
Manchuria—		ſ	1	
Dairen	Oct. 19-25	3	1	
Shanghai	Oct. 25-Nov. 14.	- 4		1
Tientsin	Nov. 1-7	- 1		Cantomber 1005, Garage 05
France				September, 1925: Cases, 25.

¹ From medical efficers of the Public Health Service. American consuls, and other sources. For reports received from June 27 to Dec. 25, 1925, see Public Health Reports for Dec. 25, 1925. The tables of quarantinable diseases are terminated semiannually and new tables begun.

CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER—Continued Reports Received from December 26, 1925, to January 8, 1926—Continued

SMALLPOX-Continued

Date	Cases	Deaths	Remarks		
Nov. 22-28					
1107. 22-23			Oct. 1-31, 1925: Cases, 16.		
Nov 1-30	17	1	,		
			Oct. 18-31, 1925; Cases, 2,303 deaths, 530.		
		3	deaths, 550.		
Nov. 1-21					
. Nov. 15-21	1	1			
- Oct. 25-31	1				
Nov. 1. 14			Sept. 6-19, 1925: Cases, 41; deaths		
- NOV. 1-14	2	*	Aug. 2-Sept. 30, 1925: Cases, 26.		
Oct. 12-25	1		114g. 2 20p. 00, 2000. 0000, 200		
1					
- Oct. 24-30					
- Oct. 11-17					
- Oct. 4-17	4				
Oct. 11-17	1				
- do					
Oct. 11-24					
- 006. 4-10	9	1	July-August, 1925: Deaths, 905.		
Dec. 13-19	4				
_ Nov. 28-Dec. 5	1				
- Nov. 1-30		15			
Oct. 1-31		1			
- 000. 2 022-22-2		-			
Oct. 4-31	124				
Nov. 14-28					
. Nov. 22-Dec. 5	1	2	May-June, 1925: Cases, 1,336		
			July 12-Sept. 5, 1925; Cases, 21		
	ł		deaths, 6.		
Mor 90 Dog 5					
			June 28-Oct. 24, 1925; Cases, 36.		
Oct. 1-31	6				
NT 01 00		1			
- Nov. 21-30	2				
TYPHUS	FEVE	R			
		1			
October, 1925	2				
Oct 1-31		1			
	,				
Nov. 19-25	1				
			October, 1925: One case.		
Mar. 1 20	1 ,,				
October, 1925	112	2			
			C		
			i September, 1925: Cases, 8: deaths		
			_ 1.		
			September, 1925: Cases, 8; deaths 1. July-August, 1925; deaths, 65.		
Dec. 14–19	1		_ 1.		
Dec. 14–19 Dec. 8–14	1 27	1	_ 1.		
Dec. 14–19		1	_ 1.		
Dec. 14-19	27		_ 1.		
Dec. 14–19 Dec. 8–14 Nov. 22–Dec. 5			_ 1.		
Dec. 14-19	27	1 	_ 1.		
Dec. 14-19	27		_ 1.		
Dec. 14-19	27	1 	1. July-August, 1925; deaths, 65.		
Dec. 14-19 Dec. 8-14 Nov. 22-Dec. 5. November, 1925 Nov. 3-9	27	2	1. July-August, 1925; deaths, 65.		
Dec. 14-19 Dec. 8-14 Nov. 22-Dec. 5. November, 1925 Nov. 3-9	27	2	September, 1925: Cases, 8; deaths, 1. July-August, 1925; deaths, 65. July, 1925: Cases, 74; deaths, 9. May-June, 1925: Cases, 7,609.		
	Nov. 29-Dec. 5	Nov. 29-Dec. 5	Nov. 29-Dec. 5		

TREASURY DEPARTMENT

PUBLIC HEALTH REPORTS

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JANUARY 22 - - 1926

SPECIAL ARTICLE

A Study of Sickness Among 133,000 Industrial Employees



WASHINGTON
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UNITED STATES PUBLIC HEALTH SERVICE

HUGH S. CUMMING. Surgeon General

DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg. Gen. B. J. LLOYD, Chief of Division

The Public Health Reports are issued weekly by the United States Public Health Service through its Division of Sanitary Reports and Statistics, pursuant to acts of Congress approved February 15, 1893, and August 14, 1912.

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Typhus fever	
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Cholera	
Plague	
Smallpox	
Typhus fever	

PUBLIC HEALTH REPORTS

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JANUARY 22, 1926

NO. 4

SICKNESS AMONG INDUSTRIAL EMPLOYEES

INCIDENCE AND DURATION OF DISABILITIES FROM IMPORTANT CAUSES LASTING LONGER THAN ONE WEEK AMONG 133,000 PERSONS IN INDUSTRY IN 1924, AND A SUMMARY OF THE EXPERIENCE FOR 1920-1924 1

In previous issues the incidence rates for disabilities among members of industrial mutual benefit associations and company relief departments, and for factory employees as reported by the plant medical department have been presented for the years 1920–1923.² In the present report the sickness frequency rates for the year 1924 are added and some new statistics presented concerning the duration of disability.

The cases tabulated are those for which sick benefits have been paid, or absences reported for disabilities lasting longer than one week. In other words, only those cases have been included which rendered employees unable to work for eight consecutive calendar days or longer.³

Industrial accidents are not included. The reports, moreover, do not include all disabling illness and nonindustrial accidents of the duration specified, since most of the reporting industrial mutual associations refuse sick benefits for disability from the venereal diseases, for illness resulting from the violation of any civil law, for the results of willful or gross negligence, and for certain other causes; and many of the associations do not pay for chronic diseases contracted prior to the date of joining the organization, nor for disabilities caused by or growing out of specific physical defects. The reports from the relief or medical departments of industrial companies were made to conform as much as possible with the data from sick-benefit associations by excluding all venereal diseases and other illnesses for which sick benefits ordinarily are not paid.

¹ From the Statistical Office in cooperation with the Office of Industrial Hygiene and Sanitation, U.S. Public Health Service. Data collected and tabulated under the immediate supervision of Assistant Statistician Dean K. Brundage. Acknowledgments are made to those association secretaries and industrial physicians whose cooperation has made possible the publication of these data.

² A series of articles on the frequency of disabling illness among industrial employees are available in the following reprints:

⁽¹⁾ Reprint No. 624 from the Public Health Reports of Dec. 3, 1920, pp. 2897-2907.

⁽²⁾ Reprint No. 644 from the Public Health Reports of Mar. 4, 1921, pp. 429-434.

⁽³⁾ Reprint No. 671 from the Public Health Reports of July 1, 1921, pp. 1497-1502.

⁽⁴⁾ Reprint No. 721 from the Public Health Reports of Jan. 6, 1922, pp. 2-9.

⁽⁵⁾ Reprint No. 807 from the Public Health Reports of Dec. 29, 1922, pp. 3195-3203.

⁽⁶⁾ Reprint No. 969 from the Public Health Reports of Oct. 31, 1924, pp. 2721-2730.

³ An exception to this statement occurs in the rates for 1920, which include a number of cases lasting only seven days. It was found, however, that the incidence rates for 1920 would not be materially different if recomputed on a strictly eight-day or longer basis.

As pointed out in the previous reports of this series, there are also certain other rules, such as the requirement that the secretary of the association shall be notified whenever a member is moved to another city for treatment or for any other cause, the penalty for violating such rules being the suspension or denial of benefits. Moreover, there are usually age limits for eligibility to membership, which probably results in relatively fewer persons at the older ages in these associations than are found among industrial employees as a whole. For these reasons it is apparent that the sickness rates presented in the accompanying tables are understatements of the amount of serious sickness

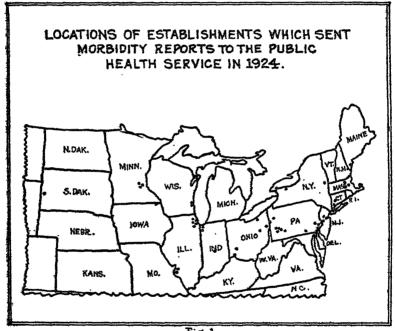


Fig. 1.

actually occurring. The statistics, nevertheless, are of value in affording some knowledge of the relative frequency of different diseases in a sample of the industrial population of the country.

In calculating the sickness frequency rates, the number of persons used as the divisor is the number of employees reported as holding membership in the association, or, in the case of relief or medical department reports, the number on the pay roll at the end of each month.

The accompanying map (fig. 1) shows the places from which the sickness reports for 1924 were sent. All the reporting establishments with one exception were east of the Mississippi and north of the Ohio and Potomac Rivers.

DISEASES CAUSING DISABILITIES LASTING EIGHT DAYS OR LONGER

The incidence rates for different diseases and disease groups among 114,065 male industrial employees in 1924 compared with the rates for a group of 89,910 males in industry in 1923 and for 66,466 men in 1922 are presented in Table 1. By classifying in accordance with the International List of the Causes of Death (1920 revision) those disabilities among males which lasted eight consecutive days or longer, and then dividing the number of cases of each disease and disease group by the average male membership for the year, any sick-benefit organization with regulations similar to those mentioned above can compare its morbidity experience with the averages presented.

Table 1.—Frequency of specified diseases and disease groups causing disability for 8 calendar days or longer in a group of male industrial workers employed in different industries. Experience for 1924 compared with 1923 and 1922

Diseases and conditions causing disability (with corresponding title numbers in parentheses from the International List of the Causes of Death, 1920		Number of cases per 1,000 males			Number of cases			
revision) List of the Causes of Death, 1920	1924	1923	1922	1924	1923	1922		
All diseases 1	96.0	95, 1	96. 4	10, 948	8, 548	6, 407		
General diseases (1-69 except 38-40)	31.0	33. 5	32.3	3, 529	3,011	2, 147		
Epidemic and endemic diseases (1-10, 12-25)	3.4	2.4	2.1	383	216	141		
innuenza and grippe (11)	16.9	22.7	20. 9	1, 923	2,037	1, 387		
Tuberculosis of the respiratory system (31)	1.3	1.2	1.9	148	108	125		
Cancer, all forms (43-50)	.6	.5	.6	70	42	42		
Rheumatism, acute and chronic (51, 52)	6.5	4.7	4.6	740	427	303		
Other general diseases (26-30, 32-37, 41, 42, 53-69)	2.3	2.0	2. 2	265	181	149		
Diseases of the nervous system (70-86)2	6.3	4.8	6.0		433	397		
Neuralgia, neuritis, sciatica (82)	2.3	1.6	2.3	267	144	153		
Neurasthenia, nervousness, etc. (84)	1.6	1.2	1.5	177	110	99		
Other nervous diseases (70-81, 83)	.7	.7	.8	85	60	54		
Diseases of the eyes (85) Diseases of the ears and of mastoid process (86)	1.2	.9	.9	134	80	62		
	.5	.4	. 5	57	39	29		
Diseases of the circulatory system (87-96) Diseases of the heart (87-96)	3,6	3.1	3.8	412 172	279	251		
Diseases of the veins (93)	1.3	1.2	1.3 1.8	149	105 119	85		
Other diseases of the circulatory system (91, 92,	1.0	1.0	1.0	149	119	122		
94-96)	.8	.6	.7	91	55	44		
Diseases of the respiratory system (97-107)	13.6	14.7	15. 9	1, 552	1,318	1, 056		
Bronchitis, acute and chronic (99)	5.0	3.3	5. 4	576	472	359		
Pneumonia, all forms (100, 101)	3.1	3.8	3.8	354	345	250		
Pneumonia, all forms (100, 101) Other diseases of the respiratory system (97, 98,		0.0	•••	001	0.0	. =00		
102-107)	5. 5	5.6	6. 7	622	501	447		
Diseases of the digestive system (108-127)	19.7	17.1	17. 5	2, 248	1,532	1, 161		
Diseases of the pharynx (103) Diseases of the stomach (111, 112)	6.4	5.7	5.3	726	515	350		
Diseases of the stomach (111, 112)	4.6	3.9	4. I	521	348	275		
Diarihea and enteritis (114)	1.9	1.8	1.8	218	161	116		
Appendicitis (117)	3.3	2.9	2.9	372	258	194		
Herma (118a). Other diseases of the digestive system (108, 110,	1.3	1.2	1.5	155	108	101		
				~~~		***		
Nonvenereal diseases of the genito-urinary system and	2.2	1.6	1.9	256	142	125		
annexa (128-142)	2.7	2.3	2,6	309	210	174		
Nephritis, acute and chronic (128, 129)	2.7	.8	.8	83	72	53		
Other diseases in this group (130-142)	2.0	1.5	1.8	226	138	121		
Diseases of the skin and cellular tissue (151-154)	3.5	3.3	3.6	401	299	237		
Diseases of the bones and of the organs of locomotion	0.0	0.0	5. 0	701		20.		
(155-158)	3.8	4.2	4.9	437	377	329		
Diseases of the bones and of the joints (155, 156),	.6	1.5	1.5	75	133	99		
Lumbago and other diseases of organs of locomo-								
tion (158)	3. 2	2.7	3.4	362	244	230		
External causes (nonindustrial accidents) (165-203)	9.6	9.0	7.8	1,093	808	518		
Ill-defined diseases and unknown causes (205)	2.2	3.1	2.0	247	281	137		
Number of persons included in the record (years of						66, 466		
				114, 965	89,910			

¹ Industrial accidents and certain diseases are not reported, as explained in the third paragraph of the text.

² Including organs of special sense (eyes, ears).

A part of the information contained in Table 1 is shown graphically in Figure 2. Although cases of influenza and grippe were less frequent in 1924 than in either 1922 or 1923, they remained the leading cause of serious disability in 1924, accounting for 18 per cent of all the sickness claims, compared with 24 per cent in 1923 and 21 per cent in 1922. From the standpoint of interrupted production, wages lost, and expense to sick benefit associations, no other disease in recent years has been so disastrous. In the five years ending December 31, 1924, influenza and grippe disabled industrial employees at a rate which was 6.6 times the frequency of the epidemic. endemic, and infectious diseases against which health work is so largely directed. As a public health problem in nonepidemic as well as in epidemic years, influenza is of outstanding importance. Any considerable reduction in its frequency, even in years like 1921 and 1924 in which no epidemic occurred, would mean the elimination of thousands of days of incapacitation to American wage carners as a whole.

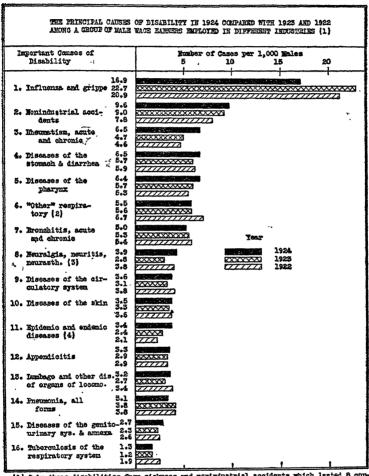
The second most important cause of disability in each of the three years was nonindustrial accidents. Judging from the rates for these years, the trend of nonindustrial injuries is upward, presumably due to an increasing number of automobile accidents.

At practically the same frequency as rheumatism in 1924 was the rate for diseases of the stomach and diarrhea, and for diseases of the pharynx. Tonsillitis, pharyngitis, and other diseases of the pharynx often cause a very considerable amount of incapacitation among industrial workers.⁴

Appendicitis occurred oftener in 1924 than pneumonia (all forms). The incidence rate of pulmonary tuberculosis was not much above, the general death rate for this disease. Evidently many of those who are tubercularly inclined either do not get into industry, or else quit factory employment before the onset of actual incapacitation.

Average annual incidence rates for different diseases and disease groups during the five years ending December 31, 1924, are given in Table 2. This experience represents the equivalent of 424,573 industrial employees under observation for one year, among whom occurred 41,830 cases of sickness and nonindustrial injury causing disability for eight consecutive days or longer. Respiratory diseases, including influenza and grippe, pulmonary tuberculosis, and diseases of the pharynx, accounted for 43 per cent of all the cases. Leaving out of account the accidents, and considering only the diseases, we find that respiratory illnesses caused 47 per cent of the sicknesses.

^{*}See Table III, p. 7, in "Disabling Sickness Among Employees of a Rubber Manufacturing Establishment in 1918, 1919, and 1920," Reprint No. 897 from the Public Health Reports of Dec. 15, 1922; also Table 1, p. 3, in "Sickness Among 21,000 Automobile Workers," Reprint No. 914 from the Public Health Reports of April 18, 1924.



(1) Only those disabilities from sickness and nonindustrial accidents which lasted 8 consegutive days or longer are included. Cartain diseases are not reported as explained in the text.

3) Title numbers 82 and 84 in the Internation List of the Causes of Death - 1920 Revisional (4) Typhoid fever, malaria, smallpox, measles, scarlet fever, whooging cough, diphtheria, erysipilas, supps, chickenpox, German measles, etc. (title numbers 1-10, 12-25 in the International List of the Causes of Death - 1920 Revision.

Fig. 2.

⁽²⁾ Including severe cold (unqualified) largusitis, pleurisy, astima and other respiratory diseases included in title numbers 7, 98, 102-107 in the International List of the Causes of Death - 1920 Revision.

Table 2.—Average annual frequency (1920-1924, inclusive) of specified diseases and disease groups causing disability for eight consecutive days or longer among a group of wage eurners of both sexes in different industries 1

Diseases and conditions causing disability (with corresponding title numbers in parentheses from the International List of the Causes of Death, 1920 revision)	Annual number of cases per 1,000 per- sons	Number of cases
All diseases 2	98.5	41,830
General diseases (1-69 except 35-40)  Epidemic and endemic diseases (1-10, 12-25)  Influenza and grappe (11)  Tuberculosis of the respiratory system (31)	30. 8 2. 8	13,091 1.184
Epidemic and end emic diseases (1-10, 12-25)	2. 8 18. 5	1, 184 7, 887
Annuenza and grippe (11)	18.5	7,887 676
Cuberculosis of the respiratory system (31)	.6	252
Cancer, an iorins (45-60)	5. 2	2, 203
Other mercal discours (96-90 99-97 41 49 59-98)	2.1	
Cancer, all forms (43-50) Rheumatism, acute and chronic (51, 52) Other general diseases (26-30, 32-37, 41, 42, 53-69) Diseases of the nervous system (70-86) 3 Neurasthenia, nervousness, etc (84) Other nervous diseases (70-81, 83) Diseases of the eyes (85) Diseases of the eyes (85) Diseases of the ears and of the mastoid process (56) Diseases of the renalizory system (87-98) Diseases of the vens (93) Other diseases of the eirculatory system (91, 92, 94-96) Diseases of the respiratory system (97-107) Bronchitis, acute and chronic (99)	6.4	2,720
Naturaloia naturitis sciatura (89)	20	856
Veuresthenia nervousness etc (84)	21	874
Other nervous discoses 170-81 83)	- 8	335
Diseases of the eyes (85)	1.0	441
Diseases of the ears and of the mastoid process (S6)	.5	214
Diseases of the circulatory system (\$7-96)	3.6	1,509
Diseases of the heart (87-90)	1.4	593
Diseases of the veins (93)	1.4	602
Other diseases of the circulatory system (91, 92, 94-96)	.8	314
Diseases of the respiratory system (97-107)	15.0	6,363
Bronchitis, acute and chronic (99) Pneumonia, all forms (100, 101) Other diseases of the respiratory system (97, 98, 102-107) Diseases of the digestive system (108-127)	5. 5	2, 359
Pneumonia, all forms (100, 101)	3. 2	1,349
Other diseases of the respiratory system (97, 98, 102-107)	6. 3	
Diseases of the digestive system (108-127)	19.9	
Diseases of the pharynx (100)	6.9	
Diseases of the stomach (111, 112)	4.2	
Learrnes and enteritis (114)	1.8	
Appendicitis (117)	3.5 1.4	
Hernia (118a)	1.4	587
Other diseases of the digestive system (108, 110, 115, 116, 118b-127).  Nonvenereal diseases of the genito-urinary system and annexa (128-142).  Nephritis, acute and chronic (128, 129).	2.1	1, 12
Nonvenereal diseases of the gento-triality system and atmers (120-142)	4.0	293
	10	831
Other diseases in this group (130–142) Diseases of the skin and cellular tissue (151–154)	1.9 3.5	1.482
Diseases of the bones and of the arease of legomotion (15%-15%)	4.0	I, 697
Diseases of the bones and of the organs of locomotion (155-158)  Diseases of the bones and of the joints (155, 156)  Lumbago and other diseases of organs of locomotion (158)  External causes (nonindustrial accidents) (165-203)  Ill-defined diseases and unknown causes (205)	1 1	484
Lambaga and other diseases of organs of locamation (158)	29	1. 213
External causes (nonindustrial accidents) (165–203)	9.9	3. 917
Ill-defined diseases and unknown causes (205)	3.5	1,489
Average number of persons included in the record.	0.0	84, 915
Years of life exposed		424, 573
		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

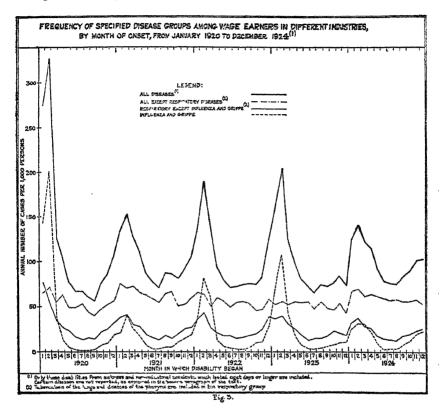
¹ Ten per cent of the total number of persons included in the record were women. A few cases lasting only seven days were included in the data for the year 1920.
² Industrial accidents and certain diseases are not reported as explained in the third paragraph of the text.

3 Including organs of special sense (eyes, ears).

### SEASONAL VARIATION IN THE INCIDENCE RATE OF SICKNESS

The peak of sickness frequency did not rise as high in 1924 as in any of the four preceding years. It is apparent from Figure 3 that the height of the peaks of sickness incidence was largely determined by the number of cases of influenza and grippe. In 1924 this disease was not as prevalent as in 1920, 1922, and 1923, and did not reach its greatest frequency in a well-defined February peak, as in the other years. with the result that less disability was recorded for the midwinter of 1924 than for the corresponding period of any of the four preceding years. In the fall of 1924, however, both respiratory and nonrespiratory illnesses occurred at a somewhat higher rate than in the corresponding months of 1923.

During the period covered by the records, a tendency is in evidence for the wave of respiratory diseases other than influenza and grippe to get under way and be close to its crest somewhat earlier in the win-



ter than the influenza-grippe wave. The nonrespiratory diseases as a group show slight seasonal variation in contrast to the decidedly seasonal characteristic of the respiratory illnesses.

Table 3.—Frequency of specified disease groups by month of onset, 1930-1024, among a group of wage carners 1

	Numbe	r of cust	s per 1,0 er year	00 pcr-		Number of cases per 1,000 per- sons per year				
Month of caset of disbility	All dis- eases 1	Influ- enza and grippe	Respiratory except influenza and grippe 2	7711	Month of onset of disability	All dis- eases ¹	Influ- enza and grippe	except influ-	All except respir- atory	
January February March April May June July August September October November December July January February March April January February March April May June	226.7   12C.0   103.9   76.7   67.3   67.3   67.1   60.1   56.2   56.2   56.2   15.5   106.1   134.0   132.5   110.6   88.4   76.6	142. 9 201. 4 37. 1 13. 2 4. 6 2. 0 7. 4 9. 3 15. 1 20. 7 40. 7 25. 6 16. 7 6. 7	40. 5 30 4 28. 3 18. 5 14. 6	53. 4 43. 7 40. 2 47. 2 51. 5 50. 4 75. 3 72. 5 65. 2 58. 7	July August Neptempor October Noven.o.r. Dece miver  1023 Jinuary February March April Mey June July August September October November December December	74.7.7.5.5.1 75.1.0 125.8 125.8 120.0 120.1 120.0 120.1 120.0 72.5 65.5 75.3 72.9 77.4 85.0	3 3 3 9 6 11. 4 28. 5 70. 0 109. 4 42. 5 8 3. 5 2. 7 7 4. 2 9 5 9 5 11. 3	17.677 19.77 25.07 25.37 25.44 19.40 19.40 114.82 15.00 20.07	54. 6 55. 6 55. 6 33. 6 45. 8 45. 8 45. 6 55. 6 25. 6 56. 2 56. 3 55. 7 43. 0 47. 0 47. 0 44. 2	
July August September October November December  1922 January February March April May June	87. 9 86. 7 81. 6 94. 3 105. 2 138. 4 189. 6 139. 9 139. 7 50. 8	3. 1 4. 7 5. 2 11. 1 15. 4 19. 0 36. 5 82. 2 61. 3 13. 1 6. 4 3. 8	18.0 14.7 19.7	66. 8 50. 8 52. 9 50. 5 65. 5 64. 2 60. 3 56. 7	May June July August September October November	142.2 124.6 116.7 94.3 80.2 77.1 76.9 81.9 91.1 104.2	24. 8 32. 2 32. 2 23. 8 11. 2 3. 9 4. 1 8. 4 12. 9 20. 8 23. 4	32. 9 38. 5 29. 3 27. 1 19. 3 15. 6 14. 2 18. 8 20. 7 24. 2 26. 8	58.7 59.3 57.7	

¹ Annual number of cases per 1,000 persons employed in establishments sending morbidity reports to the Public Health Service. Only those disabilities from sickness and non-industrial accidents which lasted eight days or longer are included, except in 1920, when a few seven-day cases were included. Certain diseases are not reported, as explained in the text.

² Tuberculosis of the lungs and diseases of the pharynx are included in the respiratory group.

### SICKNESS FREQUENCY ACCORDING TO SEX

The female members of reporting sick-benefit associations were disabled oftener than the male members to the extent of 44 per cent during the three years ending December 31, 1924. This difference is not attributable primarily to conditions of the puerperal state, nor to diseases of the female genital organs, because most of the reporting associations pay benefits only for ailments common to both sexes.

Comparison of sickness frequency according to sex shows that the women had more than twice as many cases per 1,000 persons as the men from (1) ill-defined diseases and unknown causes of disability; (2) neurasthenia, nervousness, and the like; (3) diseases of the pharynx; (4) appendicitis; (5) diseases of the respiratory system

other than bronchitis and pneumonia; and (6) nonvenereal diseases of the genito-urinary system and annexa other than nephritis (acute and chronic).

The women had fewer cases of hernia per 1,000 persons than the men, less pneumonia, a lower rate for diseases of the veins, for rheumatism, and for diseases of the bones and of the organs of locomotion.

The two sexes are not comparable, probably, as to age, for a larger proportion of men than of women is usually found in the older age Disabling illness among women over 45 years of age is not much of a factor in industrial morbidity experience, on account of the relatively small number of women in industry who are beyond this age.

When the waiting period for sickness benefits is less than one week, the difference in the disability rates for the two sexes may be expected to exceed 44 per cent. Records of absence from work on account of disability kept by industrial medical departments indicate that the female disability frequency rate may be nearly twice that of the male rate when all illnesses causing absence from work for one day or longer are included.

Table 4.—Frequency of specified disabilities, classified according to sex, 1921-1924 1

Diseases and conditions causing disability (with corresponding title numbers in parentheses from		umber of er 1,000	Per cent	Number	of cases
the International List of the Causes of Death, 1920 revision)	Males	Females	rate	Males	Females
All diseases 1 General diseases (1-69 except 38-40).  Epidemic and endemic diseases (1-10, 12-25).  Influenza and grippe (11).  Tuberculosis of the respiratory system (31). Cancer, all forms (43-60).  Rheumatism, acute and chronic (51, 52). Other general diseases (26-30, 32-37, 41, 42, 53-69).  Diseases of the nervous system (70-86) 2  Neuralgia, neuritis, sciatica (82). Neuralgia, nervousness, etc. (84). Other nervous diseases (70-81, 83). Diseases of the eyes (85). Diseases of the eyes (85). Diseases of the cyrs (85). Diseases of the cyrs (87-90). Diseases of the heart (87-90). Diseases of the veins (93). Other diseases of the circulatory system (91, 92, 92).	.65 2.47 5.00 1.57 1.56 1.50 1.45	1,79 3.1 4.67 2.7 7.9 1.69 3.3	108 111 110 113 150 56 192 240 135 527 86 160 180	31, 907 10, 475 912 6, 201 505 192 1, 842 823 1, 911 670 493 254 493 254 470 503	1,339 119 868 70 36
Other issues of the choice of the choice of the part of the property of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the pa	7.333 14.333 5.76929 1.54291.5	6.6 1.4 13.0 33.4 15.7 4.4 1.8 7.5	143 147 125 42 228 180 266 105 95 242 20	240 4,812 1,789 1,121 1,902 6,240 1,978 1,421 639 1,042 505	1,333 627 177 72
115, 116, 118b-127)	2.0		185	864	. 145

¹ Only those disabilities from sickness and nonindustrial accidents which lasted eight days or longer are included.

* Industrial accidents and certain diseases are not reported as explained in the text.

* Including organs of special sense (eyes, ears).

TABLE 4.—Frequency	of	specified	disabilities,	classified	according to	sex,
	1	921-192	4—Continue	ed	•	•

Diseases and conditions causing disability (with corresponding title numbers in parentheses from the International List of the Causes of Death, 1920	Annual n	umber of er 1,000	Per cent	Number of cases		
the International List of the Causes of Death, 1920 revision)	Males	Females	rate	Males	Females	
Nonvenereal diseases of the genito-urinary system and annexa (128-142).  Nephritis, acute and chronic (128, 129).  Other diseases in this group (130-142).  Diseases of the skin and cellular tissue (151-154)  Diseases of the bones and of the organs of locomotion (155-158).  Lumbago and other diseases of the organs of locomotion (158).  External causes (nonindustrial accidents) (165-203).  Ill-defined diseases and unknown causes (205).	3.1	4.4 .6, 3.8 3.2 2.4 1.0 1.4 8.9 12.6	176 86 211 91 55 77 45 101 548	858 251 607 1, 173 1, 471 436 1, 035 2, 958 787 336, 525	177 26 151 130 97 42 55 356 503 39, 967	

### SICKNESS FREQUENCY ACCORDING TO ESTABLISHMENTS REPORTING

Sickness rates for the three years ending December 31, 1924, are presented in Table 5 for those establishments which reported throughout this period. Even three-year averages show a wide range in the frequency of sickness in different industrial establishments, the men in establishment No. 1 having nearly three and one-half times as much serious sickness as the men in establishment No. 18. Among the factors which account for such wide differences in the male sickness rates by establishments may be mentioned the following:

- (1) Artificial differences resulting from the nature of the by-laws and the administration of the funds. One association may approve sickness claims which others would disallow. The relative differences between wages and sickness benefits is also known to have an effect upon the number of sickness claims.
- (2) Differences in age and physical fitness due to the type of work engaged in. In some industries and manufacturing establishments a process of selective recruitment of men of a high standard of physical fitness undoubtedly goes on as a result of the heavy nature of the work. It is to be expected that sickly people will not be found usually in heavy, strenuous trades, but are attracted to the light, sedentary occupations.
- (3) Differences due to the influence upon health of the nature of the work and the working environment, and of home and community conditions.

Table 5.—Frequency of illness among males during the three years ending December 31, 1924, by establishments which reported throughout this period ¹

Establishments arrayed according to the size of the illness frequency rate	Years of life exposed, 1922-1924, inclusive	Number of cases which began in these three years	Annual number of cases per 1,000 men	Establishments arrayed according to the size of the illnessfrequency rate	Years of life exposed, 1922-1924, inclusive	Number of cases which began in these three years	Annual number of cases per 1,000 men
Total for establishments reporting continuously during the last 3 years.	218, 161	21, 118	96.8	No. 8	3, 246 14, 738 3, 887 20, 009 3, 647	417 1,877 375 2,764 332	128. 5 127. 4 96. 5 92. 1
No. 1	13, 520 12, 199 10, 383 3, 637 1, 456 8, 389 1, 666	2, 430 2, 021 1, 591 540 214 1, 187 223	179.7 165.7 153.2 148.5 147.0 141.5 133.9	No. 13 No. 14 No. 15 No. 16 No. 17 No. 18	10, 082 2, 635 44, 046 9, 248 27, 006 18, 376	332 760 186 3,041 611 1,601 948	91. 0 75. 4 70. 6 69. 0 66. 1 59. 3 51. 6

i Includes only those cases of sickness and nonindustrial accidents which caused disability for eight consecutive days or longer.

### NATURE OF THE ILLNESSES IN CERTAIN INDUSTRIES

In Table 6 the frequency of different diseases and groups of diseases is shown for men in iron and steel manufacturing, in the public utilities, and in a group of miscellaneous industries which include employees of the chemical, abrasive, paper, hat, clock, and certain other industries. The disability rate for men in the public utilities, which include street railway, gas, and electric light and power companies, was 52 per cent above the rate for men in the iron and steel industry and 20 per cent above the experience of the miscellaneous industries group. No specific disease or disease group accounted for the relatively high rates in the public utilities, the frequency of nearly all of the different illnesses shown in the table being somewhat higher in this industry. Comparatively heavy disability rates for 1 arly all the ailments, and especially for such diseases as pulmonary tuberculosis, grippe (nonepidemic). and diseases of the stomach suggest that the public utilities attract a less healthy type of worker than the steel industry. It is doubtful, however, that persons of a lower standard of physical fitness are attracted to the public utilities than occurs in the "other" industries group, because the sickness rates are low for several representative public service companies. The age distribution of persons on the pay roll, the policy of the different companies in regard to the retention or discharge of persons in poor health, and such artificial factors as the relative difference between wages and sickness benefits may affect the number of sickness claims to an extent sufficient to account for at least part of the 20 per cent excess in the illness frequency rate for public service corporations compared with industry in general as represented by the "other" industries group.

In the iron and steel industry the rates for most of the diseases were lower than for the other two industrial groups. Diseases of the nervous system and of the digestive system were notably infrequent, and a low frequency prevailed for bronchitis and for influenza and grippe. The heavy nature of the work in various occupations of the steel industry apparently causes a selective recruitment of exceptionally sturdy stock, and probably also a selective discharge from the industry of those who find themselves physically unfit for heavy work.

A few diseases, however, were more prevalent in steel than in the other industries. The epidemic and infectious disease rate was high. In this group smallpox, typhoid fever, and malaria accounted for practically all of the excess disability. There were twice as many cases of typhoid and of malaria per 1,000 men in iron and steel as in the other industries as a whole, and 21 times as many cases of smallpox. These diseases obviously are more of a problem in some communities than in others and in certain groups of the population than in other groups, and so may be more difficult to prevent in certain steel manufacturing cities than in places which produce other commodities; but the tendency toward higher epidemic and infectious disease rates in any industry or group of individuals should be under surveillance, and the possible causes studied as thoroughly as the conditions permit.

In the steel industry the pneumonia rate also was found to be markedly above its frequency in the other industries. This result suggested the desirability of a special study of pneumonia morbidity and mortality among iron and steel workers, and a paper presenting such statistics as are available on the subject is being prepared for publication.

Table 6.—Frequency of sickness and nonindustrial accidents causing disability for eight consecutive days or longer among male wage earners, 1922-1924 inclusive, classified according to industries specified

Diseases and conditions causing disability (with		number r 1,000 m		Number of Lises			
corresponding title numbers in parentheses from	Iron	Public	Other	Iron	Public	Other	
the International List of Causes of Death, 1920	and	utili-	indus-	and	utili-	indus-	
revision)	steel	ties	tries 1	steel	ties	tries ¹	
All diseases 1 General diseases (1-59 except 38-40) Epidemic and endemic diseases (1-10, 12-25) Influenza and grippe (11) Tyberculosis of the respiratory system (31) Cancer, all forms (43-50) Rheumatism, acute and chronic (51, 52) Other general diseases (26-30, 32-37, 41, 42, 53-69)	76. 9	117. 3	97. 6	6, 847	8, 024	11, 032	
	29. 6	39. 9	29. 4	2, 635	2, 727	3, 325	
	3. 7	2. 8	2. 0	330	188	222	
	16. 7	25. 4	18. 8	1, 483	1, 740	2, 124	
	1. 4	2. 2	. 9	127	150	104	
	. 6	. 7	. 4	57	50	47	
	5. 1	6. 3	5. 2	450	432	588	
	2. 1	2. 5	2. 1	188	167	240	

Including employees of the chemical, alwasive, paper, bat, clock, and certain other industries.
Industrial accidents and certain diseases are not reported as explained in the third paragraph of the text.

Table 6.—Frequency of sickness and nonindustrial accidents causing disability for eight consecutive days or longer among male wage earners, 1922-1924, inclusive, classified according to industries specified—Continued

Diseases and conditions causing disability (with		number 1,000 m		Number of cases			
corresponding litle numbers in parentheses from the International List of Causes of Death, 1920 re- vision)	Iron and steel	Public utili- ties	Other indus- tries	Iron and steel	Public utili- ties	Other indus-tries	
Diseases of the nervous system (70-86) ³ Neuralgia, neuritis, sciatica (\$2)  Neurasthenia, nervousness, etc. (\$1)  Other nervous diseases (70-81, 83)  Diseases of the cyes (\$5)  Diseases of the cerculatory system (\$7-90)  Diseases of the heart (\$7-90)  Diseases of the verins (93)  Other diseases of the errculatory system (\$1, 92, 91-90)	1.5 .5 .9 .7 .3 3.1 1.4 1.1	6.6 27 1.5 .7 1.1 .6 4.0 1.1 2.2	1. 2 .6 3. 5 1. 5 1. 3	345 130 48 77 66 21 275 124 94	278 73 154 51	752 248 232 72 137 63 389 165 142	
Diseases of the respiratory system (97–107)  Bronchitis, acute and chronic (99)  Pneumonia, all forms (100, 101)  Other diseases of the respiratory system (97, 98,	2.9 4.9	18.8 7.7 2.7	14.2 5.5 2.9	1, 036 260 433	1, 284 529 182	1, 506 618 334	
Diseases of the digestive system (108-127). Diseases of the pharynx (109). Diseases of the stomach (111, 112). Diseases of the stomach (114, 112). Appendicitis (117). Hernia (118a). Other diseases of the digestive system (108, 110,	3.8 12.8 3.5 3.2 1.4	8.4 24.5 7.8 5.9 2.6 4.1 1.9	5.8 18.8 6.6 4.0 1.7 3.0	343 1, 143 312 285 125 209 77	573 1, 673 534 405 175 278 129	654 2, 125 745 454 196 337 158	
115, 116, 118b-127)	1.5	2.2	2.1	135	152	236	
Nonvenereal diseases of the genito-urinary system and annexs (128-142)	1.5	3.3 1.1 2.2 3.9	2.3 .5 1.8 4.0	204 69 135 217	225 76 149 267	264 63 201 453	
(155-158)	3.7 .8	4.9 1.4	4.2 1.2	331 70	335 96	477 141	
Lumbago and other diseases of the organs of loco- motion (158)	2.9 6.8 .6	3.5 8.6 2.8	3.0 10.8 3.7	261 667 54	239 588 194	336 1, 224 417	
Years of life exposed				29, 678 89, 035	22, 807 68, 420	37, 662 112, 986	

^{*} Including organs of special sense (eyes, ears).

### DURATION OF DISABILITIES IN 1924

The sickness rates presented in this and earlier papers on illness causing disability for at least one week have all been sickness incidence or frequency rates. Table 7 represents a beginning in the presentation of sickness severity rates for males under different maximum periods for which sick benefits are paid. Only a few of the reporting associations have the same benefit period, so that the severity rates under the several benefit periods indicated are based on altogether too little data to constitute an American morbidity experience table. When the data cover a larger number of establishments and a longer period of time they will be of more practical value.

Table 7, however, does show the large amount of time lost on account of influenza and grippe, and indicates that certain disease

groups, such as diseases of the nervous system, of the circulatory system, and of the genito-urinary system, are much more important from the standpoint of the amount of time lost from work than from the standpoint of their frequency of occurrence.

The longer average duration shown for certain diseases under the 26 weeks and 52 weeks benefit period compared with the 13 weeks period suggests the possibility of a tendency toward prolongation of disability when the benefit period is more liberal. The frequency of the very long cases—i. e., those lasting 80 days or longer—was found to be higher in the groups having a 52 weeks benefit period, but since these cases may have been of long duration on account of the age of the person sick, the frequency of cases lasting less than 80 days under the different waiting periods is believed to be a better indication of whether the suggested tendency is real or not. The frequency of cases lasting less than 80 days was found to be practically the same in the group having 13 weeks as the maximum period for which benefits can be paid as under the 52 weeks benefit period. Hence no general tendency toward longer incapacitation can be said to be in evidence when the benefit period covers an entire year.

Table 7.—Calendar days of disability from cases which were closed in 1924, among male members of sick benefit associations, by diseases and disease groups causing disability for eight consecutive days or longer

Diseases and conditions causing disability (with corresponding title numbers in paren-		dar da bility case 1		Calendar days of disability per 1,000 males ¹			Number of cases which were closed in 1924		
(with corresponding title numbers in parentheses from the International List of the Causes of Death, 1920 revision)		it peri weeks	ođ, in		it peri weeks			it peri weeks	od, in
	13	26	52	13	26	52	13	26	52
All diseases ¹ General diseases (1-69, except 38-40) Epidemic and endemic diseases (1-10, 12-25) Influenza and grippe (11) Tuberculosis of the respiratory system (31) Cancer, all forms (43-50) Rheumatism, acute and chronic (51, 52) Other general diseases (26-30, 32-37, 41, 42, 53-69) Diseases of the nervous system (70-86) ³ Neuralgia, neuritis, sciatica (82) Neurasthenia, nervousness, ctc (84) Other nervous diseases (70-81, 83) Diseases of the eyes (85) Diseases of the eyes (85)	26, 55 22, 90 54, 04 45, 06 37, 97 43, 13 29, 40 53, 00 55, 40	28. 48 27. 94 17. 57 100. 04 50. 10 38. 69 40. 16 44. 68 38. 46	57, 23 44, 90 34, 49 161, 29 109, 81 78, 08 55, 47 92, 49 45, 59 113, 40 212, 56	712 117 220 96 35 183 61 166 40 56 38		153 468	1, 473 490 95 210 25 17 108 35 84 30 23 15	1,081 84 632 47 20 228 70 251 89 66	1, 290 502 59 234 24 16 133 36 75 37 5 18
cess (80) Diseases of the circulatory system (87-96) Diseases of the heart (87-90) Diseases of the veins (93) Other diseases of the circulatory system	45.03 65.18	23 62 40.12 61.93 21.37	87.70 121.82	12 124 51 48	14 156 75 31	8 310 233 36	5 60 17 32	21 123 41 43	5 61 33 18
Other diseases of the respiratory system (97, 92, 94-96).  Diseases of the respiratory system (97-107).  Bronchitis, acute and chronic (99).  Pneumonia, all forms (100, 101).  Other diseases of the respiratory system (97, 95, 102-107).	48. 64 31. 86 30. 35 39. 95	44, 03 27, 90 22, 18 50, 50 23, 78	59. 82 60. 21 43. 82	353 110 155	136	593 131 170		92	10 171 34 67

Disability during the waiting period—i. e., the first seven days of disability—is included.
Industrial accidents and certain diseases are not reported as explained in the third paragraph of the text.
Including organs of special sense (eyes, ears).

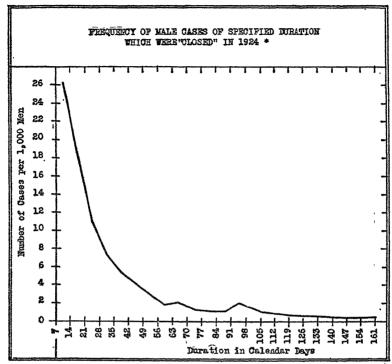
Table 7.—Calendar days of disability from cases which were closed in 1924, among male members of sick benefit associations, by diseases and disease groups causing disability for eight consecutive days or longer—Continued

Diseases and conditions causing disability		edar da hility case		d:5'	adır d Blilty 300 ma	pei	Number of cases which were closed in 1924		
(with corresponding title numbers in parentheses from the International List of the Causes of Death, 1920 revision)	Benefit period, in weeks			Bene	fit peri weeks	od, in	Benefit period, in weeks		
	13	26	52	13	26	52	13	26	52
Diseases of the digastive system (105-127)  Diseases of the pharynx (109)  Diseases of the stomach (111, 112)  Diarrhea and enter-its (114)  Appendictis (117)  Herma (118a)  Other diseases of the digastive system (108, 110, 118, 116, 118b-127)  Nonvenereal diseases of the genito-urinary system and annexa (128-142)  Nephritis, acute and chronic (128, 129)  Other diseases in this group (130-142)  Diseases of the skin and cellular tissue (151-154)  Diseases of the bones and of the organs of locomotion (155-158)  Diseases of the bones and of the joints (155,	19, 72 40, 24 46, 86 48, 83 53, 32 39, 20 41, 49, 60 12, 32, 69 23, 91 38, 91	34, 89 25, 82 42 03 46, 06 39, 25 45, 56 43, 29 46, 41 24, 53 25, 80	19 52 47. 34 48. 25 51. 43 63. 63 46. 07 109 35 178 88 68. 15 35. 92 37. 51	51 121 45 161 76 79 101 47 54 49	195 194 69 121 67 127 138 36 162 117	756 175 56 119 59 72 273 166 107 81	57 16 21 72 31 44 53 17 36 45	317 189 91 98 49 110 103 28 75 162	44 64 20 49 16 27 43 16 27 39
156) Lumbago and other diseases of the organs of locomotion (158) External causes (nonindustrial accidents) (165–203)	32. 30 34. 85	24. 10 27. 95	31, 00 37 91 43, 08			145 242	14 20 158	132 392	66 97
III-defined diseases and unknown causes (205) Number of sick benefit associations included Average number of male members in 1924	38. 56 3 21, 853	5	133, 92 2 17, 261	28	113	93	16	107	12

In Table 8 and Figure 4 the distribution of male cases is shown according to their duration. At first there is an abrupt decrease in the frequency as the duration increases. The number of cases lasting 21 days, for example, is only about one-half the number lasting 8 days. After the third or fourth week the decrease in sickness frequency becomes less abrupt until the curve gradually flattens out. The hump in the graph from the ninety-first to the ninety-eighth day is due to the inclusion of a group of associations which pay sick benefits for 13 weeks only, the record for cases which normally would last longer than 13 weeks being automatically terminated on the ninety-eighth day (13 weeks benefit period plus 1 week waiting period).

A curve of this sort is of considerable interest when comparing the sickness in one period with that of another. The aim of industrial medical service is to push the curve to the wall; i. e., to flatten it out toward the left as much as possible, as well as to reduce its level; in short, to corner it. The extent to which this is accomplished from time to time can be shown graphically by comparing the curve of duration in one period with that of another period. It is important to know whether the frequency of the longer cases, especially, is increasing or decreasing.

Park the great the great the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the contract the co



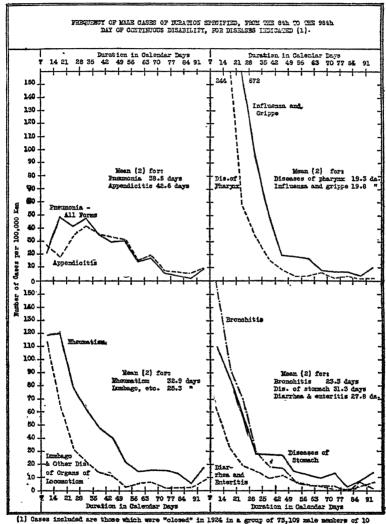
* Experience of 75,109 male members of sick benefit associations which keep a record of cases from the first to the 98th day of continuous disability, fof 51,256 male members of associations which record from the first to the 189th day of continuous disability.

Table 8.—Frequency of male cases of specified duration which were "closed" in 1924

Duration in calendar days	Number of cases	Number of cases per 1,000 men	Duration in calendar days	Number of cases	Number of cases per 1,000 men
All days. 8-14 15-21 22-28 22-35 36-42 43-49 50-56 87-63 64-70 71-77	6, 528 1, 921 1, 329 796 535 389 296 207 135 150 89	26. 28 18. 18 10. 89 7. 32 5. 32 4. 05 2. 83 1. 85 2. 05 1. 22	78-84 85-91 92-98 99-112 113-126 127-140 141-154 155-168 169-182 183-196 More than 196	82 84 145 70 44 31 24 31 22 64 84	1. 12 1. 15 1. 98 . 60 . 42 . 33 . 42 . 30 . 88

¹ Experience of 73,109 male members of sick benefit associations which keep a record of cases from the first to the ninety-eighth day of continuous disability, of 51,256 male members of associations which record from the first to the one hundred and eighty-ninth day of continuous disability, and of 17,251 male members of associations which record from the first to the three hundred and seventy-second day of continuous disability.

In Table 9 and Figure 5 the frequency of cases of different duration is shown for certain diseases. A striking difference is seen in the duration curve for pneumonia and for appendicitis compared with diseases of the pharynx and with influenza and grippe. For



(1) Uses included are those which were "closed" in 1974 in a group of 73,109 male members of 1 large establishment sick benefit funds.
(2) Exclusive of cases lasting more than 98 days.

the larger associations it would be of interest to compare the frequency of different diseases according to their duration with the results given in the table. The rate of occurrence of cases lasting longer than the expected duration is of particular interest, because

one of the aims of industrial medical service is to get the patient back to his work as soon as practicable. A method of ascertaining the extent to which this has been accomplished over a fairly long period is to compare for the more important diseases the frequency of cases of different duration with the expected frequency based on the experience of a large number of industrial employees. If a higher than expected rate is found for the longer cases, and the results are not explained by the age of the persons sick, it would appear that an opportunity exists for more effective medical attention.

Table 9.—Frequency of male cases of duration specified, from the eighth to the ninety-eighth day of continuous disability, for diseases indicated ¹

ninety-eighth day d	,				0, 0						
Duration of disability, in calendar days	Influenza and grippo (11)	Bronchitis (99)	Pneumonia (100, 101)	Diseases of the phar- ynx (109)	Diseases of the stom- ach (111, 112)	Diarrhea and enter- itis (114)	Appendicitus (117)	Diseases of the skin (151-154)	Lumbago and other diseases of organs of locomotion (158)	Rheumatism (51, 53)	Nonindustrial aceldents (165-203)
	Ŋ	NUME	ER C	F CA	SES						
Cotal, 8 to 98	1, 058	306	228	413	302	127	211	240	212	423	629
8-14 5-21 2-28 9-35 6-42 3-49 0-56 7-63 4-70 1-77 8-84 5-91 2-98	37 14 13 12 5	116 69 51 22 14 13 5 3 3 3 0 5 2	16 36 31 35 26 22 23 11 13 4 3 1	178 136 43 24 12 6 2 2 5 1 1	81 62 42 21 21 20 11 9 7 10 2 6 10	45 24 14 11 7 9 5 3 2 0 1 2 4	20 13 25 31 26 25 23 11 15 6 5 4	90 57 40 14 15 7 5 2 3 2 3 2 0	84 48 23 16 10 8 2 4 5 2 2 2 6	87 88 58 46 35 30 16 11 12 12 10 4 14	204 117 82 47 47 37 24 11 17 17 10 7
NU	MBER	OF (	CASES	PEF	100,0	00 ME	N				
8-14 5-21 2-28 9-35 6-42 3-49 0-56 7-63 4-70 1-77 8-84 5-91 12-98	19 18	159 94 70 30 19 18 7 4 4 4 6 7 3	22 49 42 48 36 30 31 15 18 6 4 1	244 186 59 33 16 8 3 7 1 1 3 1 1	111 85 58 29 29 27 15 12 10 14 3 8 14	62 33 19 15 10 12 7 4 3 0 1 3 6	27 18 34 42 36 34 32 15 21 8 7 6 10	123 78 55 19 21 10 7 3 4 3 4 3 0	115 06 32 22 14 11 3 6 7 3 3 8	119 120 79 63 48 41 22 15 16 16 14 6	279 160 112 64 64 51 33 33 15 22 14 10 12 28, 7

### SUMMARY

1. Although statistics of sickness incidence based upon the reports of industrial mutual benefit associations of cases causing disability for eight consecutive days or longer are understatements of the amount

² Exclusive of cases lasting more than 98 days.

of serious illness actually occurring, on account of the common practice of refusing cash benefits for the venereal diseases and for certain other causes of disability, they do afford some knowledge of the relative frequency of different diseases in a sample of the industrial population of the country.

- 2. Influenza and grippe was not so prevalent in 1924 as in either 1922 or 1923, but still remained the leading cause of disability lasting eight days or longer.
- 3. Nonindustrial accidents were the second most frequent cause in each of the last three years, and the rate appears to be steadily increasing.
- 4. Respiratory diseases accounted for 47 per cent of all the cases of sickness reported during the last five years.
- 5. Less disability was reported in January, February, and March, 1924, than in the same months of each of the four preceding years.
- 6. The frequency of eight days or longer disabilities was 44 per cent higher among female than among male industrial employees, although the comparison included only those diseases which are common to both sexes.
- 7. The men in the establishment which had the highest sickness rate for the three years ending December 31, 1924, experienced nearly three and one-half times as many cases as the men in the plant which had the lowest illness rate.
- 8. There was considerably more sickness reported among men employed in public utilities than in iron and steel manufacturing, and in a group of miscellaneous industries; and the frequency of certain diseases varied considerably according to industry. In iron and steel manufacturing there were relatively few diseases of the nervous system and of the digestive system reported, and the incidence rate for bronchitis and for influenza and grippe was low. On the other hand, a higher rate was found for certain epidemic and infectious diseases such as smallpox, typhoid fever, and malaria, and the pneumonia rate among iron and steel workers was well above its frequency in the other industries included in the study.
- 9. Sickness severity rates for the year 1924 under three different benefit periods indicate that certain disease groups, such as diseases of the nervous system, of the circulatory system, and of the genitourinary system, are much more important from the standpoint of the amount of time lost from work than from the standpoint of their frequency of occurrence. "Influenza and grippe," however, is important from both points of view. No general tendency toward longer incapacitation appears to be in evidence under longer benefit periods.

#### INCREASING DEMAND FOR PUBLIC HEALTH COURSES

#### Texas A. & M. College Augments its Curriculum in Public Health

According to a recent Weekly News Letter issued by the Texas State Board of Health, the State Agricultural and Mechanical College of Texas will, beginning this year, offer a new course in public-health education—rural sanitation. The course will be elective and will include subjects most vitally related to health in rural districts, such as the following: Safe sewage disposal for rural homes; safeguarding farm water supplies; malaria control; hookworm control; sanitation of rural schools; milk as a disease-carrying vehicle; sanitary requirements of municipalities governing rural dairies; community and county health work; and the general relation of sanitation to health.

As the News Letter states, this expansion in the public-health curriculum is evidence of the increasing interest in public health work.

This is the second course in public health that is being offered by this college, the other course being that of "City management and sanitary engineering." It is stated that the latter course was made necessary by the great demand by the municipalities of the State for trained health workers in this comparatively new field of service that is appealing to the best talent of the country. The course includes the following subjects: City government; the administration of city departments; city planning; public utilities; principles and methods of sewage treatment; water purification; garbage and refuse collection and disposal; mosquito control; and sanitation and public health.

In addition to these courses, special public-health subjects are also being offered by Baylor College; and from present indications similar courses will, in the near future, be given by other colleges and universities of the State.

## DEATHS DURING WEEK ENDED JANUARY 9, 1926

Summary of information received by telegraph from industrial insurance companies for week ended January 9, 1926, and corresponding week of 1925. (From the Weekly Health Index, January 12, 1926, issued by the Bureau of the Census, Department of Commerce)

Daparentes of Commences,	Week ended Jan. 9, 1926	Corresponding week 1925
Policies in force	60, 559, 182	58, 318, 201
Number of death claims	12, 506	11, 695
Death claims per 1,000 policies in force, annual	rate_ 10.8	10. 5

Deaths from all causes in certain large cities of the United States during the week ended January 9, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, January 12, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week en 9, 1		Annual ceatn rate per	Deaths 1 3		Infant mortality rate
City	Total deaths	Death rate 1	1,000 corre- sponding week 1925	Week ended Jun. 9, 1926	Corresponding week 1925	week ended
Total (69 cities)	8, 709	15.6	14-6	69ء	922	371
Akron	52			11	. 8	117
Albany i	53	23. 5	17. 3	.5	1	105
Atlanta White	63 39			10	14	;
Colored	24	(5)		8 2		
Baltimore 4	270	(5) 17.7	20.0	24	21	70
White	212	]		18		
Colored.	58	(5) 24, 8		6		
Birmingham	98	24.8	20.8	15	14	
White	50			6		
Colored	48	( ³ ) 16. 7		.7		ţ
Boston	249	16.7	17. 1	27	45	76
BridgeportBuffalo	30 175	17.0	15.4	3 20	0 17	51 83
Cambridge	28	12.2	15.7	20 6	10	100
Camden	41	16.6	15.4	6	4	101
Canton	25	12.3	11.8	5	3	111
Chicago 4	739	12 9	14.3	73	115	65
Cincinnati	169	21. 5	17. 1	ii	14	68
Cleveland	240	13. 4	10.4	30	24	78
Columbus	81	15.1	15. 5	6 7	7	55
Dallas	56	15.1	11.1	7	7	
White	43			6		
Colored Dayton	13 40	( ⁶ ) 12.1	11. 5	17	2	110
Denver	74	13.7	15.0	5	8	110
Des Moines	47	16.4	11.2	2	2	33
Detroit	314	13.1	10.9	59	49	95
Duluth	24	11. 3	11.8	5	2 8	117
El Paso	42	20.9	17. 4	6	8	
Erie	32 33			4	6	76
Fall River 4	33	13.3	12.5	5	3	73
FlintFort Worth	23 36	9.2 12.3	6.8 10.9	5 5 7	8	83
White.	30	10	10.9	6		
Colored	6	(5)		ĭ		
Grand Rapids.	40	(5) 13. 6	12.9	1 2	2	29
Houston	73	23.1	16. 1	10	5	
White	57			9		
Colored	16	(5) 14.8		17		
Indianapolis	102	14.8	14.2	7	5	53
White	83 19			ß		
Jacksonville	56	(5) 27, 8	23.4	1 7	2	153
Jersey City	86	14.2	14.9	11	12	78
Kansas City, Kans	40	18.0	16.6	î	4	78 17
White	28			ī		21
Colored	28 12	(9)		o		. 0
Kansas City, Mo.	88	12.5	13. 2	7	2	
Los Angeles	285			26	36	72
Louisville	86 66	14.8	12.9	10	12	. 86 90
White	20	76		9	1	63
Colored						
Colored Loweli	45	(5) 21.3 17.7	15.6	8	, 8	149

Annual rate per 1,000 population.
 Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1924. Cities left blank are not in the registration area for births. Data for 64 cities.

Data for 5 cities.

Data for 5 cities.

Deaths for week ended Friday, January 8, 1926.

In the cities for which deaths are shown by color, the colored population in 1920 constituted the following per cents of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended January 9, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, January 12, 1926, issued by the Bureau of the Census, Department of Commerce)—Contd.

	Week en	ded Jan. 926	Annual death rate per	Death:	Infant mortality	
Citỳ	Total deaths	Death rate	1,000 corre- sponding week 1925	Week ended Jan 9, 1926	Corre- sponding week 1925	rate week ended Jan. 9, 1926
Memphis	70	20. 9	20. 3	10	1	
White	36			5		
Colored Milwankee	34 138	(5) 14.3	11. 4	5 22	ļ <u>-</u> -	
Minneapolis	107	13.1	12.6	12	15 12	102 67
Nashville 4	48	18.4	17. 2	12	1 7	0,
White	28			8 5 3 5		
Colored New Bedford	20	(5) 12.6		3		
New Bediera	29 58	12.6 16.9	7. 9 12. 5	5 5	1 4	87
New Haven New Orleans	181	22.8	18.1	20	16	, 68
White	95	22.0	10. 1	8	10	
Colored	86	(5) 15.3		12		
New York	1,720	15.3	14.7	148	186	60
Bronx Borough	194	11.6	11.3	12	21	40
Brooklyn Borough Manhattan Borough	556 741	13. 2 19. 9	12. 4 20. 2	54 62	65 72	55
Queens Borough	173	12.6	10.1	15	22	08
Queens Borough Richmond Borough	56	21. 1	21.1	5	6	68 68 88 38
Newark, N. J	118	13.6	17.4	8	27	38
Norfolk	37	<b></b>		4	2	74
W nite	18	7.		1 3		30
Colored	19 81	(5) 16. 6	13. 2	3 6	3	149 69
Oakland Oklahoma City	28	10.0	10.2	3	4	69
Omaha	58	14.3	8. 4 20. 6	6	1	62
Paterson.	45	16.6	20.6	6	4	70
rimadelphia	668	17.6	16.3	68 27	67	90
Portland, Oreg	240 59	19.8 10.9	13.0	27	22	90
Providence.	94	18.3	16. 3 13. 6 12. 6 11. 5	2 9 7 3 4	1 8	90 20 75
Richmond	66	18. 5	14.5	ž	7	88
White	38			3		88 59
Colored	28	(5) 14. 0		4		140
Rochester	85 228	14. U 14. 5	12.2 18.2	14	6	64
St. Paul	68	14. 4	10.0		28 7	53
Salt Lake City 4	33	13, 1	13. 5	ž	4	28
St. Paul Salt Lake City 4	56	14. 7	18.2	8	4 8	
San Diego.	41	20. 2	17.6	1	12	21 54
San Francisco.	234	21.9	16.2	ă	3	54
Schonectady Seutile.	29 93	16.3	10.7	. u	2 2	, o
Somerville	29	15.3	10.0	í	2	26
Spokane	29 29	13.9	14.4	62819091264432871	12 3 2 2 2 2 2 2 2 2 7 7	47
Spokane	35	12.8	13.A	6	5	87
Syracuse	48 28 89	13.8	12.6 17.0 13.4	4	6	51
Tacoma	28	14.0 16.1	17,0	12	2	0 83 26 47 87 51 93
Trenion	48	19.0	23.3	20	7	33
Trenton Washington, D. C. White. Colored	178	18.6	23.3 13.3	8	10	45
White	123 55			7		
Colored	55	(4)		1		
Waterbury Wilmington, Del	26 34			4	4	86
Wilmington, Del.	34 68	14.5	15. 4 11. 8	4 5 4 0	7 5 5	117 46
		1070	( TT+O	7	, ,	, 20
Yonkers	27	18.6 12.4	10.6	Ω	5	0

⁴ Deaths for week ended Friday, January 8, 1926.
⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following per cents of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Rouston 25, Kansas City, Kans, 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Morfolk 38, Richmond 32, and Washington, D. C., 25.

# PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

# UNITED STATES

# CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

# Reports for Week Ended January 16, 1926

ALABAMA		CALIFORNIA	
	ases	Cerebrospinal meningitis:	Cases
Cerobrospinal meningitis		Modesto	
Chicken pox		Sacramento	- 1
Dengue		Sar Francisco	- 3
Diphtheria		San Francisco	. ]
Influenza		Chicken por	. 260
Malaria		Diphtheria	. 80
Measles		Influenza.	. 614
Mumps		Lethargic encephalitis—Sonora	- 1
Pellagra	2	Measles	_ 38
Pneumonia	240	Mumps	. 161
Poliomyelitis	1	Scarlet fever	. 139
Scarlet fever	24	Smallpox:	
Smallpox	49	Los Angeles	. 85
Tetanus	1	Los Angeles County	. 16
Tuberculosis	46	Riverside	. 10
Typhoid fever	9	Scattering	. 40
Whooping cough	18	Typhoid fever	- 16
		Whooping cough	. 80
ARIZONA		COLORADO	
Chicken pox	31	Chicken por.	- 77
Diphtheria	6	Diphtheria	. 16
Measles	2	Impetigo contagiosa	. 1
Mumps	1	Measles.	. 4
Pellagra	1	Mumps.	15
Pneumonia	1	Pneumonia.	. 5
Scarlet fever	32	Scarlet fever	. 41
Smallpox	1	Tuberculosis	. 23
Trachoma	2	Typhoid fever	. 23 . 1
Tuberculosis	12	Whooping cough	. 36
Whooping cough	7		. 90
ARKANSAS		Chicken	
Chicken pox	20	Chicken pox.	148
Diphtheria	6	Diphtheria.	. 41
Hookworm disease	1	German measles	. 7
Influenza	-	Influenza	. 5
	28	Measles	475
Malaria		Mumps	. 15
Mumps	2	Ophthalmia neonatorum	. 1
Pellagra	4	Pneumonia (broncho)	. 52
Scarlet fever	9	Pneumonia (lobar)	51
Smallpox	1	Scarlet fever	74
Trachoma	3	Septic sore throat	. 1
Tuberculosis	6	Tuberculosis (all forms)	25
Typhoid fever	4	Typhoid fever	. 3
Whooping cough	9	Whooping cough	. 80

DELAWARE		INDIANA	
	ises	-	ases
Chicken pox	2	Chicken pox	
Diphtheria	4	Diphtheria	
Influenza	4	Influenza	
Measles	17 1	Measles	
Mumps	2	Mumps	
Pneumonia	7	Pneumonia Polioniyelitis	
Scarlet fover Tuberculosis	24	Scarlet fever	
Typhoid fever	1	Smallpox	
Whooping cough	3	Tuberculosis	
MODING COMPANIANCE CONTRACTOR		Typhoid fever	
FLORIDA		Whooping cough	
Chicken pox	39		
Dengue	2	IOWA	
Diphtheria	17	Chicken pov	
German measles.	1	DiphtheriaMeasles	
Influenza.	11	Mumps	
Malaria	7	Pneumonia	
Measles	3	Scarlet fever	
Mumps	27	Smallpox	
Pneumonia	17	Typhoid fever	
Scarlet fever	6	Whooping cough	
Smallpox	89		
Tuberculosis	4	Kansas	
Typhoid fever	6	Cerebrospinal meningitis-Conway Springs	1
Whooping cough	4	Chicken pox	129
GEORGIA		Diphtheria	
Cerebrospinal meningitis	1	German measles	
Chicken pox	25	Influenza	_
Conjunctivitis (infectious)	1	Measles	
Diphtheria	27	Mumps	
Dysentery	1	Pneumonia Scarlet fever	
Hookworm disease	4	Smallpox:	94
Influenza		Hoisington	19
Lethargic encephalitis		Scattering	
Malaria		Tuberculosis	
Measles		Typhoid fever	
Mumps	1	Whooping cough	
Pneumonia.		LOUISIANA	
Scarlet fever	7	Diphtheria	2
Septic sore throat	11	Influenza	
Smallpox	7	Malaria	
Tetanus	2	Pneumonia	
Tuberculosis	21	Scarlet fever	
Typhoid fever	10	Smallpox	
Typhus fever	2	Tuberculosis	
Whooping cough.	8	Typhoid fever	
ILLINOIS		Wheoping cough	. 1
Diphtheria	100	MAINE	
Influenza		Cerebrospinal meningitis	
Measles		Chicken pox	
Pneumonia		Diphtheria	
Poliomyelitis:	000	Influenza	
Edgar County	1	Measles	
Piatt County		Mumps	
Vermilion County		Paratyphoid fever	
Scarlet fever		Pneumonia	
Smallpox:		Poliomyelitis	
Marshall County		Scarlet fever	
Scattering		Septic sore throat	
Tuberculosis		Tuberculosis	
Typhoid fever	21	Typhoid fever	
NA SPECIALIZATION CALIFORNIA PL.	165	· vv nacrone conen	

MARYLAND ³		Mississiffi	
	Cases		Cases
Cerebrospinal meningitis	2	Diphtheria	15
Chicken pox.	160	Scarlet fever	9
Diphtheria Dysentery	28 3	Smallpox.	14
German measles.		Typhoid fever	3
Influenza.	96	MISSOURI	
Measles	749	Cerebrospinal meningitis	1
Mumps		Chicken pox	69
Ophthalmia neonatorum	4	Diphtheria	73
Pneumonia (broncho)		Influenza	19
Pneumonia (lobar)		Measles	20
Scarlet fever	47	Mumps	47
Tetanus	1	Pneumonia	9
Tuberculosis	85	Rabies	2
Typhoid fever	3	Scarlet fever	197
Typhus fever	1	Smallpox	2
Vincent's angina	1	Tuberculosis	34
Whooping cough	48	Typhoid fever Whooping cough	9
MASSACHUSETTS		Whooping cought	15
		MONTANA	
Cerebrospinal meningitis		Chicken pox	37
Chicken pox		Diphtheria	6
Conjunctivitis (suppurative)		German measles	3
Diphtheria		Measles	10
German measles		Mumps	82
Hookworm disease		Scarlet fever	43
Measles		Smallpox	5
Mumps	•	Tuberculosis	3
Ophthalmia neonatorum		Typhoid fever	1
Pneumonia (lobar)		Whooping cough	8
		l	
Scarlet fever	280	NEBBASKA	
Scarlet fever		Chicken pox	11
	1	Chicken pox	15
Septic sore throat	1 4	Chicken pox	15 1
Septic sore throat	1 4 1	Chicken pox	15 1 2
Septic sore throat	1 4 1 128 37	Chicken pox	15 1 2 3
Septic sore throat	1 4 1 128 37	Chicken pox.  Diphtheria.  German measles.  Influenza.  Measles.  Mumps.	15 1 2 3 4
Septie sore throat	1 4 1 128 37	Chicken pox Diphtheria German measles Influenza Measles Mumps Scarlet fever	15 1 2 3 4 35
Septic sore throat	1 4 1 128 37	Chicken pox.  Diphtheria.  German measles.  Influenza.  Measles  Mumps.  Scarlet fever.  Smallpox.	15 1 2 3 4 35 19
Septic sore throat	1 4 1 128 37 7 404	Chicken pox. Diphtheria. German measles. Influenza. Measles Mumps. Scarlet fever. Smallpox. Typhoid fever.	15 1 2 3 4 35 19 2
Septic sore throat	1 4 1 128 37 7 404	Chicken pox.  Diphtheria.  German measles.  Influenza.  Measles  Mumps.  Scarlet fever.  Smallpox.	15 1 2 3 4 35 19
Septic sore throat Trachoma. Trichinosis Tuberculosis (pulmonary). Tuberculosis (other forms). Typhoid fever. Whooping cough MICHIGAN Diphtheria. Measles.	1 4 1 128 37 7 404	Chicken pox. Diphtheria. German measles. Influenza. Measles Mumps. Scarlet fever. Smallpox. Typhoid fever. Whooping cough	15 1 2 3 4 35 19 2
Septic sore throat Trachoma Trichinosis Tuberculosis (pulmonary) Tuberculosis (other forms) Typhoid fever Whooping cough MICHIGAN Diphtheria Measles Pneumonia	1 4 1 128 37 7 404 68 844 192	Chicken pox. Diphtheria. German measles. Influenza. Measles Mumps. Scarlet fever. Smallpox. Typhoid fever. Whooping cough NEW JERSEY Chicken pox.	15 1 2 3 4 35 19 2 20
Septic sore throat Trachoma. Trichinosis Tuberculosis (pulmonary). Tuberculosis (other forms). Typhoid fever. Whooping cough MICHIGAN Diphtheria. Measles.	1 4 1 128 37 7 404 68 844 192 345	Chicken pox.  Diphtheria.  German measles.  Influenza.  Measles.  Mumps.  Scarlet fever.  Smallpox.  Typhoid fever.  Whooping cough.  NEW JERSEY  Chicken pox.  Diphtheria.	15 1 2 3 4 35 19 2 20
Septic sore throat	1 4 1 128 37 7 404 68 844 192 345 7	Chicken pox.  Diphtheria. German measles. Influenza. Measles Mumps Scarlet fever. Smallpox. Typhoid fever. Whooping cough.  NEW JERSEY Chicken pox. Diphtheria. Influenza.	15 1 2 3 4 35 19 2 20 386 113 24
Septic sore throat	1 4 1 128 37 7 404 68 844 192 345 7 57	Chicken pox. Diphtheria. German measles. Influenza. Measles Mumps. Scarlet fever. Smallpox. Typhoid fever. Whooping cough.  NEW JERSEY Chicken pox. Diphtheria. Influenza. Leprosy.	15 1 2 3 4 35 19 2 20 386 113 24 1
Septic sore throat	1 4 1 128 37 7 404 68 844 192 345 7 57 13	Chicken pox. Diphtheria. German measles. Influenza. Measles Mumps. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  NEW JERSEY Chicken pox. Diphtheria. Influenza. Leprosy. Measles.	15 1 2 3 4 35 19 2 20 386 113 24 1
Septic sore throat	1 4 1 128 37 7 404 68 844 192 345 7 57 13	Chicken pox. Diphtheria. German measles. Influenza. Measles Mumps. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  NEW JERSEY Chicken pox. Diphtheria. Influenza. Leprosy. Measles. Pneumonia.	15 1 2 3 4 35 19 2 20 386 113 24 1 1,028 279
Septic sore throat	1 4 1 1 128 37 7 404 68 844 192 345 7 13 293	Chicken pox. Diphtheria. German measles. Influenza. Measles. Mumps. Scarlet fever. Smallpox. Typhoid fever. Whooping cough.  NEW JERSEY Chicken pox. Diphtheria. Influenza. Leprosy. Measles. Pneumonia. Scarlet fever.	15 1 2 3 4 35 19 2 20 386 113 24 1 1,028 279 254
Septic sore throat	1 4 1 1 128 37 7 404 68 844 192 7 57 13 293	Chicken pox. Diphtheria. German measles. Influenza. Measles Mumps. Scarlet fever. Smallpox. Typhoid fever. Whooping cough.  NEW JERSEY Chicken pox. Diphtheria. Influenza. Leprosy. Measles. Pneumonin. Scarlet fever. Typhoid fever.	15 1 2 3 4 35 19 2 20 386 113 24 1 1,028 279 254 9
Septic sore throat	1 4 1 1 128 37 7 404 404 68 844 192 345 7 7 13 293	Chicken pox. Diphtheria. German measles. Influenza. Measles. Mumps. Scarlet fever. Smallpox. Typhoid fever. Whooping cough.  NEW JERSEY Chicken pox. Diphtheria. Influenza. Leprosy. Measles. Pneumonia. Scarlet fever. Typhoid fever. Whooping cough.	15 1 2 3 4 35 19 2 20 386 113 24 1 1,028 279 254
Septic sore throat	1 4 1 1 1 128 37 7 404 68 844 192 345 7 57 13 293 1 1 189 68	Chicken pox. Diphtheria. German measles. Influenza. Measles. Mumps. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  NEW JERSEY Chicken pox. Diphtheria. Influenza. Leprosy. Measles. Pneumonia. Scarlet fever. Typhoid fever. Whooping cough	15 1 2 3 4 35 19 2 20 386 113 24 1 1,028 279 254 9 63
Septic sore throat	1 4 1 1 128 37 7 404 688 844 192 345 7 57 13 293 189 68 2	Chicken pox. Diphtheria. German measles. Influenza. Measles. Mumps. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  NEW JERSEY Chicken pox. Diphtheria. Influenza. Leprosy. Measles. Pneumonia. Scarlet fever. Typhoid fever. Whooping cough	15 1 2 3 4 35 19 2 20 386 113 24 1 1,028 279 254 9 63
Septic sore throat	1 4 1 1 1 128 2 2 1 1	Chicken pox. Diphtheria. German measles. Influenza. Measles. Mumps. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  NEW JERSEY Chicken pox. Diphtheria. Influenza. Leprosy. Measles. Pneumonin. Scarlet fever. Typhoid fever. Whooping cough	15 1 2 3 4 4 35 19 2 2 20 386 113 24 1 1,028 279 254 9 63
Septic sore throat	1 4 4 128 37 7 404 68 844 192 345 7 13 293 68 2 2 1 17	Chicken pox. Diphtheria. German measles. Influenza. Measles Mumps. Scarlet fever. Smallpox. Typhoid fever. Whooping cough.  NEW JERSEY Chicken pox. Diphtheria. Influenza. Leprosy. Measles. Pneumonin. Scarlet fever. Typhoid fever. Whooping cough.  NEW MEXICO Chicken pox. Diphtheria. Influenza. Leprosy. Measles. Pneumonin. Scarlet fever. Typhoid fever. Whooping cough.  NEW MEXICO Chicken pox. Diphtheria. Influenza.	15 1 2 3 4 4 35 19 2 20 386 113 24 1,028 279 254 9 63
Septic sore throat	1 4 1 128 37 7 404 68 844 192 345 7 13 293 68 2 2 1 17 6	Chicken pox. Diphtheria. German measles. Influenza. Measles Mumps. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  NEW JERSEY Chicken pox. Diphtheria. Influenza. Leprosy. Measles. Pneumonin. Scarlet fever. Typhoid fever. Whooping cough.	15 1 2 3 4 4 35 19 2 20 386 113 24 1,028 279 254 9 63
Septic sore throat	1 4 1 1 1 128 37 7 404 68 844 192 345 7 57 13 293 68 2 1 1 7 6 6 2	Chicken pox. Diphtheria. German measles. Influenza. Measles. Mumps. Scarlet fever. Smallpox. Typhoid fever. Whooping cough.  NEW JERSEY Chicken pox. Diphtheria. Influenza. Leprosy. Measles. Pneumonia. Scarlet fever. Typhoid fever. Whooping cough.	15 1 2 3 3 4 4 35 119 2 2 20 386 113 24 4 1 1,028 279 63 27 4 4 5 5 6 6
Septic sore throat	1 4 1 1 1 128 37 7 404 688 844 192 345 7 57 13 293 189 68 62 1 17 6 6 6 2 277	Chicken pox. Diphtheria. German measles. Influenza. Measles Mumps. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  NEW JERSEY Chicken pox. Diphtheria. Influenza. Leprosy. Measles. Pneumonia. Scarlet fever. Typhoid fever. Whooping cough  NEW MEXICO Chicken pox. Diphtheria. Influenza. Weasles Pheumonia. Scarlet fever. Typhoid fever. Whooping cough	15 1 2 2 3 4 4 35 19 2 20 20 3866 113 24 1 1,028 279 254 9 63 27 4 5 5 5 6 66 16 6 16 6
Septie sore throat	1 4 4 128 37 7 404 68 844 192 345 7 7 13 293 68 2 1 17 6 6 2 277 9	Chicken pox. Diphtheria. German measles. Influenza. Measles Mumps. Scarlet fever. Smallpox. Typhoid fever. Whooping cough.  NEW JERSEY Chicken pox. Diphtheria. Influenza. Leprosy. Measles. Pneumonia. Scarlet fever. Typhoid fever. Whooping cough.  NEW MEXICO Chicken pox. Diphtheria. Influenza. Leprosy. Measles. Pneumonia. Scarlet fever. Typhoid fever. Whooping cough.  NEW MEXICO Chicken pox. Diphtheria. Influenza. Measles. Mumps Pneumonia. Pneumonia.	15 1 2 3 4 4 35 19 2 20 386 113 24 9 63 279 254 9 63 63
Septic sore throat	1 4 1 128 37 7 404 68 844 192 345 7 13 293 68 2 2 11 17 6 6 2 2 277 9 47	Chicken pox. Diphtheria. German measles. Influenza. Measles Mumps. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  NEW JERSEY Chicken pox. Diphtheria. Influenza. Leprosy. Measles. Pneumonia. Scarlet fever. Typhoid fever. Whooping cough  NEW MEXICO Chicken pox. Diphtheria. Influenza. Leprosy. Measles. Pneumonia. Scarlet fever. Typhoid fever. Whooping cough  NEW MEXICO Chicken pox. Diphtheria. Influenza. Measles. Mumps. Pneumonia. Poliomyelitis. Rabies (in animals)	15 1 2 3 4 4 35 119 2 2 20 386 113 24 1 1 1,028 279 254 4 5 5 5 6 6 1 1 1 1
Septie sore throat	1 4 1 128 37 7 404 68 844 192 345 7 13 293 68 2 1 1 177 6 2 2777 9 9 47 4	Chicken pox. Diphtheria. German measles. Influenza. Measles Mumps. Scarlet fever. Smallpox. Typhoid fever. Whooping cough.  NEW JERSEY Chicken pox. Diphtheria. Influenza. Leprosy. Measles. Pneumonia. Scarlet fever. Typhoid fever. Whooping cough.  NEW MEXICO Chicken pox. Diphtheria. Influenza. Leprosy. Measles. Pneumonia. Scarlet fever. Typhoid fever. Whooping cough.  NEW MEXICO Chicken pox. Diphtheria. Influenza. Measles. Mumps Pneumonia. Pneumonia.	15 1 2 3 4 4 35 5 19 2 20 20 386 113 24 4 1 1,028 279 254 4 5 5 5 6 6 16 1 1 11 11

1 Week ended Friday.

Deaths.

NEW MEXICO—continued	1	PENNSYLVANIA	<b>~</b>
	ses		Cases
Tuberculosis	20	Cerebrospinal meningitis—Beaver Meadows.	1
Typhoid fever	1	Chicken pox	748 228
Vincent's angina	1	Diphtheria  German measles	18
Whooping cough	20	Measles	-
NEW YORK		Mumps	212
(Exclusive of New York City)		Ophthalma neonatorum—Philadelphia	4
Diphtheria	89	Pneumonia	56 2
Influenza	43	Scables.	10
Lethargic encephalitis	1	Scarlet fever	516
Measles	725	Tuberculosis	119
Pneumonia	423	Typhoid fever	30
Poliomyclitis	3	Whooping cough	273
Scarlet fever			
Smallpox	2	RHODE ISLAND	
Typhoid fever	38	Chicken pox	6
Whooping cough	347	Diphtheria	17
NORTH CAROLINA	1	German measles	4
	. 1	Influenza	10
Cerebrospinal meningitis	1	Mensles.	468
Chicken pox		Ophthalmia neonatorum.	2
Diphtheria.	29	Pneumonia	1
German measles	44	Scarlet fever	10
Scarlet fever	54	Tuberculosis	4
Septic sore throat	3	Whooping cough	3
Smallpox.		SOUTH DAKOTA	
Typhoid fever		Anthrax	1
Whooping cough.	1	Chicken pox.	14
OKLAHOMA		Diphtheria	3
		Measles	1
(Exclusive of Tulsa and Oklahoma City)		Mumps	107
Cerebrospinal meningitis-Muskogee	1	Pneumonia	1
Chicken pox		Scarlet fever	35
Diphtheria	21	Smallpox	4
Influenza	308	Typhoid fever	1
Influenza	12	Whooping cough	2
Malaria Measles	12 3	Whooping cough TENNESSEE	
Malaria Measles Mumps	12 3 4	Whooping cough	2
Malaria Measles Mumps Pellagra	12 3 4 3	Whooping cough  TENNESSEE Cerebrospinal meningitis—Blount County	2
Malaria	12 3 4 3 183	Whooping cough  TENNESSEE  Cerebrospinal meningitis—Blount County Chicken pox	1 37
Malaria Measles Mumps Pellagra Pneumonia Scarlet fever	12 3 4 3 183 39	Whooping cough  TENNESSEE  Cerebrospinal meningitis—Blount County Chicken pox	1 37 18
Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Typhoid fever	12 3 4 3 183 39 13	Whooping cough  TENNESSEE  Cerebrospinal meningitis—Blount County Chicken pox  Diphtheria Influenza	1 37 18 180
Malaria Measles Mumps Pellagra Pneumonia Scarlet fevor Typhoid fever Whooping cough	12 3 4 3 183 39 13	Whooping cough  TENNESSEE  Cerebrospinal meningitis—Blount County Chicken pox Diphtheria Influenza Lethargic encephalitis—Blount County	1 37 18 180 1
Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Typhoid fever	12 3 4 3 183 39 13	Whooping cough  TENNESSEE  Cerebrospinal meningitis—Blount County Chicken pox Diphtheria Influenza Lethargic encephalitis—Blount County Malaria	1 37 18 180 1
Malaria Measles Mumps Pellagra Pneumonia Scarlet fevor Typhoid fever Whooping cough	12 3 4 3 183 39 13 34	Whooping cough  TENNESSEE  Cerebrospinal meningitis—Blount County. Chicken pox. Diphtheria. Influenza. Lethargic encephalitis—Blount County Malaria. Measles.	1 37 18 180 1 4 152
Malaria Measles Mumps Pellagra Procumonia Scarlet fevor Typhoid fever Whooping cough OREGON Cerebrospinal meningitis	12 3 4 3 183 39 13 34	Whooping cough  TENNESSEE  Cerebrospinal meningitis—Blount County Chicken pox Diphtheria Influenza Lethargic encephalitis—Blount County Malaria Measles Mumps	1 37 18 180 1
Malaria Measles Mumps Pellagra Pneumonia Scarlet fevor Typhoid fever Whooping cough	12 3 4 3 183 39 13 34	Whooping cough  TENNESSEE  Cerebrospinal meningitis—Blount County. Chicken pox. Diphtheria. Influenza. Lethargic encephalitis—Blount County Malaria. Measles.	1 37 18 180 1 4 152 14
Malaria	12 3 4 3 183 39 13 34 1 26 15	Whooping cough  TENNESSEE  Cerebrospinal meningitis—Blount County Chicken pox Diphtheria Influenza Lethargic encephalitis—Blount County Malaria Measles Mumps Pellagra	1 37 18 180 1 4 152 14 5
Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Typhoid fever Whooping cough OREGON  Cerebrospinal meningitis Chicken pox Diphtheria	12 3 4 3 183 39 13 34 1 26 15	Whooping cough  TENNESSEE  Cerebrospinal meningitis—Blount County Chicken pox Diphtheria Influenza Lethargic encephalitis—Blount County Malaria Measles Mumps Pellagra Pneumonia.	1 37 18 180 1 4 152 14 5
Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Typhoid fever Whooping cough OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Mumps	12 3 4 3 183 39 13 34 1 26 15 21	Whooping cough  TENNESSEE  Cerebrospinal meningitis—Blount County Chicken pox Diphtheria Influenza Lethargic encephalitis—Blount County Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis.	1 37 18 180 1 4 152 14 5 151
Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Typhoid fever W hooping cough  OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Mumps Ophthalmia neonatorum	12 3 4 3 183 39 13 34 1 26 15 21 8 43 1	Whooping cough  TENNESSEE  Cerebrospinal meningitis—Blount County Chicken pox Diphtheria Influenza Lethargic encephalitis—Blount County Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	1 37 18 180 1 4 152 14 5 151 22 11 20 4
Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Typhoid fever Whooping cough OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Mumps Ophthalmia neonatorum Penumonia	12 3 4 3 183 39 13 34 1 26 15 21 8 43 1	Whooping cough  TENNESSEE  Cerebrospinal meningitis—Blount County Chicken pox Diphtheria Influenza Lethargic encephalitis—Blount County Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis.	1 37 18 180 1 4 152 14 5 151 22 11
Malaria Measles Mumps Pellagra Prelingra Proumonia Scarlet fever Typhoid fever Whooping cough OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mensles Mumps Ophthalmia neonatorum Pernumonia Scarlet fever	12 3 4 3 183 39 13 34 1 26 15 21 8 43 1	Whooping cough  TENNESSEE  Cerebrospinal meningitis—Blount County Chicken pox Diphtheria Influenza Lethargic encephalitis—Blount County Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	1 37 18 180 1 4 152 14 5 151 22 11 20 4
Malaria Measles Mumps Pellagra Pneumonia Scarlet fevor Typhoid fever Whooping cough OREGON  Cerebrospinal meningitis Chieken pox Diphtheria Influenza Measles Mumps Ophthalmia neonatorum Penumonia Scarlet fever Smallpox	12 3 4 3 183 39 13 34 1 26 15 21 8 43 1 1 2 4 4 3	TENNESSEE  Cerebrospinal meningitis—Blount County Chicken pox Diphtheria Influenza Lethargic encephalitis—Blount County Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	1 37 18 180 1 4 152 14 5 151 22 11 20 4 32
Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Typhoid fever Whooping cough OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Mumps Ophthalmia neonatorum Penumonia Scarlet fever Smallpox Deschutes County	12 3 4 3 183 39 13 34 1 26 15 21 8 43 1 12 40 31	TENNESSEE  Cerebrospinal meningitis—Blount County Chicken pox Diphtheria Influenza Lethargic encephalitis—Blount County Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  TEXAS Cerebrospinal meningitis	1 37 18 180 1 4 152 14 5 151 22 11 20 4 32
Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Typhoid fever Whooping cough  OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Mumps Ophthalmia neonatorum Penumonia Scarlet fever Smallpox Deschutes County Scattering	12 3 4 3 183 39 13 34 1 26 15 21 8 43 1 2 40 31 19 19	TENNESSEE  Cerebrospinal meningitis—Blount County Chicken pox Diphtheria Influenza Lethargic encephalitis—Blount County Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  TEXAS Cerebrospinal meningitis Chicken pox	1 37 18 180 14 152 14 5 151 12 2 11 20 4 32
Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Typhoid fever Whooping cough OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Mumps Ophthalmia neonatorum Penumonia Scarlet fever Smallpox Deschutes County	12 3 4 3 183 39 13 34 1 26 15 21 8 43 1 1 240 31 19 9	TENNESSEE  Cerebrospinal meningitis—Blount County Chicken pox Diphtheria Influenza Lethargic encephalitis—Blount County Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  TEXAS Cerebrospinal meningitis	1 37 18 180 1 4 152 14 5 151 22 11 20 4 32
Malaria Measles Mumps Pellagra Preumonia Scarlet fever Typhoid fever Whooping cough OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Mumps Ophthalmia neonatorum Perumonia Scarlet fever Smallpox Deschutes County Scattering Tuberoulosis	12 3 4 3 183 39 13 34 1 26 15 21 8 43 1 2 40 31 19 9 9 9	TENNESSEE  Cerebrospinal meningitis—Blount County. Chicken pox. Diphtheria. Influenza. Lethargic encephalitis—Blount County. Malaria. Measles. Mumps. Pellagra Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough  TEXAS  Cerebrospinal meningitis. Chicken pox. Dengue.	1 137 188 180 1 4 152 14 5 5 151 22 11 20 4 32

TEXAS—Continued	- 1	WEST VIRGINIA	
Cas	- 1		ses
Paratyphoid fever	2	Diphtheria	8
Pellagra	5	Scarlet fever	11
Pneumonia.	30	Typhoid fever	2
Scarlet fever	33		
Smallpox	20	WISCONSIN	
Tuberculosis	25	Mılwaukee:	_
Typhoid fever	4	Cerebrospinal meningitis	3
Whooping cough	37	Chicken pox.	151
UTAH		Diphtheria	41
Cerebrospinal meningitis—Salt Lake City	1	German measles	2
		Influenza	1
Clucken pox	87	Measles	7
Diphtheria	10	Mumps	28
Influenza	14	Pneumonia	24
Measles	2	Scarlet fever	21
Mumps	48	Tuberculosis	14
Pneumonia	10	Typhoid fever	5
Scarlet fever	14	Whooping cough	58
Smallpox	16	Scattering:	
Tuberculosis	1	Chicken pox	970
Whooping cough.	32	Diphtheria.	
VERMONT		German measles	<i>20</i>
Chicken pox	41		-
Measles.	1	Influenza	41
Mumps	69	Lethargic encephalitis	1
Scarlet fever.	22	Measles	
	2	Mumps	
Typhoid fever		Pneumonra	
Whooping cough	52	Poliomyelitis	
VIRGINIA	_	Scarlet fever	
Smallpox	8	Smallpox	-
WASHINGTON		Trachoma	2
Cerebrospinal meningitis-Spokane	2	Tuberculosis	14
Chicken pox		Typhoid fever	3
Diphtheria		Whooping cough	98
German measles			
Measles		WYOMING	
Mumps		Chicken pox	. 9
-			
Scarlet fever	119	Diphtheria	
Smallpox:		German measles	
Tacoma		Influenza	
Yakima County		Measles	
Scattering		Mumps	
Tuberculosis		Pneumonia	
Typhoid fever		Scarlet fever	
Whooping cough	40	Whooping cough	. 6
		nded January 9, 1926	
	2505		8808
Chicken pox		Smallpox	
Diphtheria	59	Whooping cough	. 32
Influenza		NORTH DAKOTA	
Measles.	12	Cerebrospinal meningitis	2
Pneumonia		Chicken pox	
Scarlet fever	25	Diphtheria	9
Tuberculosis	6	German measles	4
Whooping cough		Lethargic encephalitis	
,		Muraps	
AWOI			
Chicken pox	41	Pneumonia	
Diphtheria	23	Scarlet fever	
Measles	117	Smallpox	
Mumps		Trachoma	
'Pneumonia		Tuberculosis	
Scarlet fever	72	Typhoid fever	. 1G

#### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Cere- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- lıtıs	Scarlet fever	Small- pox	Ty- phoid fever
August, 1925										
Colorado		84	2		5		11	54	1	71
September, 1925										
Colorado		149			18		6	43	1	87
October, 1925						1				
Nebraska		81					46	84		7
November, 1925										
Nebraska	2	29					14	106		12
December, 1925										
Arkansas	2	27 113	303 3	113	6 30	21	0	45 91	11 4	56 25
GeorgiaIndiana	3	93 228	667 145	62	14	18	1 2 2 2	30 918	22	56 25 61 38 10
Nebraska North Dakota	3	47 28	1 5		14		2 2	178 281	10	10
				1		1			1	

#### PLAGUE-ERADICATIVE MEASURES IN THE UNITED STATES

The following items were taken from the reports of plague-eradicative measures from the cities named:

Los Angeles, Calif.	
Week ended Jan. 2, 1926:	
Number of rats trapped	1, 928
Number of rats found to be plague infected	0
Number of squirrels examined	448
Number of squirrels found to be plague infected.	0
Number of mice trapped	2, 340
Number of mice found to be plague infected	0
Date of discovery of last plague-infected rodent, Nov. 6, 1925.	
Date of last human case, Jan. 15, 1925.	
Oakland, Calif.	
(Including other East Bay communities)	
Week ended Jan. 2, 1926:	
Number of rats trapped	391
Number of rats found to be plague infected	0
Totals:	
Number of rats trapped Jan. 1, 1925, to Jan. 2, 1926	79, 502
Number of rats found to be plague infected	21
Number of squirrels examined May 1 to Aug. 1, 1925	
Number of squirrels found to be plague infected	
Number of mice trapped Jan. 1, 1925, to Jan. 2, 1926	
Date of discovery of last plague-infected rat, Mar. 4, 1925.	00, 210
Date of last human case, Sept. 10, 1919.	
senso or recovered Amon's Moline was a range	

#### RABIES-MIAMI, FLA.

A case of rabies was reported during December, 1925, at Miami, Fla. The patient was bitten by a stray dog November 14, 1925, and died December 18.

#### SMALLPOX IN INDIANA

Under date of January 14, 1926, 150 cases of smallpox were reported in Oakland City, Ind. An epidemic of smallpox was also reported in South Bend, Ind., with several deaths.

#### GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended January 2, 1926, 36 States reported 1,397 cases of diphtheria. For the week ended January 3, 1925, the same States reported 1,652 cases of this disease. One hundred and two cities, situated in all parts of the country and having an aggregate population of about 28,900,000, reported 756 cases of diphtheria for the week ended January 2, 1926. Last year for the corresponding week they reported 854 cases. The estimated expectancy for these cities was 1,086 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-three States reported 5,529 cases of measles for the week ended January 2, 1926, and 1,561 cases of this disease for the week ended January 3, 1925. One hundred and two cities reported 3,514 cases of measles for the week this year, and 864 cases last year.

Poliomyelitis.—The health officers of 36 States reported 27 cases of poliomyelitis for the week ended January 2, 1926. The same States reported 24 cases for the week ended January 3, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-six States—this year, 3,282 cases; last year, 3,436 cases. One hundred and two cities—this year, 1,289 cases; last year, 1,627 cases; estimated expectancy, 1,041 cases.

Smallpox.—For the week ended January 2, 1926, 36 States reported 431 cases of smallpox. Last year for the corresponding week they reported 775 cases. One hundred and two cities reported smallpox for the week as follows: 1926, 135 cases; 1925, 238 cases; estimated expectancy, 60 cases. Five deaths from smallpox were reported by these cities for the week this year—1 at South Bend, Ind., and 4 at Los Angeles, Calif.

Typhoid fever.—Two hundred and sixty-four cases of typhoid fever were reported for the week ended January 2, 1926, by 35 States. For the corresponding week of 1925 the same States reported 479 cases of this disease. One hundred and two cities reported 56 cases of typhoid fever for the week this year and 204 cases for the corresponding week last year. The estimated expectancy for these cities was 67 cases.

#### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

									·	
State	Cere- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
August, 1925										
Colorado		84	2		5		11	54	1	71
September, 1925	]									
Colorado		149			18		6	43	1	87
October, 1925										
Nebraska		81					46	84		7
November, 1925		Ì				1		İ		
Nebraska	2	29					14	106		12
December, 1925										
Arkansas	2	27	303	113	6	21	0	45	11	56
Colorado		113 93	667	62	30 14	18	1 2 2 2	91 30	4 22	56 25 61 38 10
Indiana Nebraska	3 3	228 47	145				2	918 178		38
North Dakota		28	5		14		2	281	10	17
	ı	1	l	ı	1	<b>5</b> .	ı	1	I	1

#### PLAGUE-ERADICATIVE MEASURES IN THE UNITED STATES

The following items were taken from the reports of plague-eradicative measures from the cities named:

Los Angeles, Calif.	
Week ended Jan. 2, 1926:	
**	1, 928
Number of rats found to be plague infected	0
Number of squirrels examined	448
Number of squirrels found to be plague infected.	0
Number of mice trapped	2, 340
Number of mice found to be plague infected.	0
Date of discovery of last plague-infected rodent, Nov. 6, 1925. Date of last human case, Jan. 15, 1925.	
$Oakland,\ Calif.$	
(Including other East Bay communities)	
Week ended Jan. 2, 1926:	
Number of rats trapped	391
Number of rats found to be plague infected	0
Totals:	
Number of rats trapped Jan. 1, 1925, to Jan. 2, 1926 79	9. 502
Number of rats found to be plague infected	21
	7, 277
Number of squirrels found to be plague infected	0
Number of mice trapped Jan. 1, 1925, to Jan. 2, 1926	•
Date of discovery of last plague-infected rat, Mar. 4, 1925.	~, ~·· ·

Date of last human case, Sept. 10, 1919.

#### RABIES-MIAMI, FLA.

A case of rabies was reported during December, 1925, at Miami, Fla. The patient was bitten by a stray dog November 14, 1925, and died December 18.

#### SMALLPOX IN INDIANA

Under date of January 14, 1926, 150 cases of smallpox were reported in Oakland City, Ind. An epidemic of smallpox was also reported in South Bend, Ind., with several deaths.

#### GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended January 2, 1926, 36 States reported 1,397 cases of diphtheria. For the week ended January 3, 1925, the same States reported 1,652 cases of this disease. One hundred and two cities, situated in all parts of the country and having an aggregate population of about 28,900,000, reported 756 cases of diphtheria for the week ended January 2, 1926. Last year for the corresponding week they reported 854 cases. The estimated expectancy for these cities was 1,086 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

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Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 94 cities, with a population of nearly 28,000,000, as follows: 1926, 1,115 deaths; 1925, 1,189.

# City reports for week ended January 2, 1926

The "estimated expectancy" given for diphtheria, poliomyclitis, searlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Yublic Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1915 is included. In obtaining the estimated expectancy the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

		Chick-	Diph	theria	Influ	ienza	Mea-		Doors
Division, State, and city	Population July 1, 1923, estimated	en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases ' re- ported	Cases re- ported	Deaths re- ported	sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine: Portland New Hampshire.	73, 129	1	2	2	0	0	1	6	2
ConcordVermont:	22, 408	0	0	1	0	0	2	0	1
Barre Massachusetts:	1 10,008	0	0	0	0	0	0	0	0
BostonFall RiverSpringfield Worcester	770, 400 120, 912 144, 227 191, 927	50 1 4 4	65 6 4 4	22 6 1 10	2 0 0 0	1 1 0 0	172 130 7 186	14 0 0 1	26 3 7 7
Rhode Island: Pawtucket Providence Connecticut:	68, 799 242, 378	2 0	3 14	0 3	0	0 1	4 345	0	9 13
Bridgeport Hartford New Haven	1 143, 555 1 138, 036 172, 967	1 16 16	9 8 3	7 7 0	1 0 2	0 1 1	114 33 10	0 0 0	7 11 3
MIDDLE ATLANTIC									
New York: Buffalo New York Rochester Syracuse New Jersey:	536, 718 5, 927, 625 317, 867 184, 511	11 120 22 27	29 219 8 8	7 103 15 3	3 32 0 0	0 12 1 0	816 55 11	0 4 0 4	25 210 5 7
Camden. Newark. Trenton. Pennsylyania:	124, 157 438, 699 127, 390	24 41 9	5 19 6	3 11 1	1 3 4	$\begin{array}{cc} & 1 \\ 0 \\ 1 \end{array}$	22 60 0	1 1 0	4 22 2
Philadelphia Pittshurgh Reading	1, 022, 788 613, 442 110, 917	137 29 25	75 28 5	86 20 1	ō	2 3 0	124 16 0	4 3 0	60 33 5
EAST NORTH CENTRAL								,	
Ohio: Cincinnati Cleveland Columbus Toledo Indiana:	406, 312 888, 519 261, 082 268, 338	23 30 7 18	15 46 7 12	4 41 4 8	0 2 0 0	1 1 4	0 616 21 25	0 1 0 0	28 5 13
Fort Wayne Indianapolis South Bend Terre Haute	93, 578 342, 718 76, 709 68, 939	3 14 0 0	16 1 3	11 1 0	0 0 0	0 1 0	69 0 0	0	3 14 2 2

¹ Population Jan. 1, 1920.

# City reports for week ended January 2, 1926—Continued

			Diphi	heria	Influ	ienza			Pneu-
Division, State, and city	Population July 1, 1923, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- aucy	Cases re- ported	Cases re- ported	Deaths 1e- ported	Measles, cases re- ported	Mumps, cases re- ported	monia, deaths re- ported
EAST NORTH CENTRAL— continued									
Illinois: Chicago	2, 886, 121 79, 675 61, 833	66 4 1	162 1 3	57 0 1	3 0 0	1 0 0	27 0 0	5 1 5	74 2 3
Detroit Flint Grand Rapids	1, 155, 000 117, 968 145, 947	37 4 11	74 11 5	49 3 0	2 0 0	1 0 0	335 5 3	5 0 1	50 0 2
Wisconsin Madison Milwaukee Racine Superior	42, 519 484, 595 64, 393 - 139, 671	10 66 1 0	2 23 2 1	0 13 1 0	0 5 0 0	0 5 0 0	1 2 1 0	0 7 0 0	0 12 0 2
WEST NORTH CENTRAL									
Minnesota: Duluth Minneapolis St. Paul Iowe	106, 289 409, 125 241, 891	6 52 14	2 21 16	2 15 14	0 0 0	0 2 0	0 8 3	0 4 0	1 8 8
Davenport Sioux City Waterloo Missouri	61, 262 79, 662 39, 667	6 8 4	1 2 0	3 0 1	0 0 0		2 0 0	0	
Kansas City St. Joseph St. Louis	351, 819 78, 232 803, 853	24 28	14 4 63	4 42	9	5	14 4	2	22
Fargo	24, 841 14, 547	0	0	0	0	0	0	10 0	0
South Dakota  Aberdeen  Sioux Falls	15, 829 29, 206	0 4	0 1	0	0		0	0	ō
Nebraska: Lincoln Omaha Kansas:	58, 761 204, 382	9 2	2 6	0 0	0	0	1 0	2 1	1 12
Topeka Wichita	52, 555 79, 261	34 14	2 7	0	0	0	1 0	0	3 2
SOUTH ATLANTIC									
Delaware: Wilmington Maryland:	117, 728	2	2	3	0	0	4	0	9
Baltimore Cumberland Frederick	773, 580 32, 361 11, 301	86 0 0	32 1 1	14 0 0	15 1 0	0 0	218 0 0	53 0 1	39 0
District of Columbia: Washington Virginia	1 437, 571	19	18	15	4	1	9	9	18
Lynchburg Norfolk Richmond	30, 277 159, 089 181, 044	13 4 4	1 3 8	3 0 10	0 0 0	0 0 1 1	0 0 1	0 0 2	0 4 8 1
West Virginia: Charleston	55, 502 45, 597	0	3	4	0	0	0	0	1 4 7
Wheeling North Carolina: Raleigh	¹ 56, 208 29, 171	0	2 1	3 2	0	0	0	0	1
Wilmington Winston-Salem South Carolina:	35, 719 56, 230	0	0	0 1	0	. 0	0 12	0	1 2 9
Charleston Columbia Greenville	71, 245 39, 688 25, 789	0	1 1	5 1 1	0 0 0	1 0 0	. 0	0	4 0 1
Georgia: Atlanta Brunswick Savannah	222, 963 15, 937 89, 448	1 0 0	4 0 1	2 0 0	55 5 1	2 0 0	0 0	0 1 0	22

¹ Population Jan. 1, 1920.

City reports for week ended January 2, 1926—Continued

Marie Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de Carres de			Dipht	heria	Influ	on za	3.5		
Division, State, and city	Population July 1, 1923, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases 1e- ported	Cases re- ported	Deaths 1e- ported	Measles, cases re- ported	Mumps, cases 10- ported	Prictinonia, deaths reported
SOUTH ATLANTIC-con.									
Florida: St. Petersburg Tampa	24, 403 56, 050	0	1 1	0 2	0	0	0	0	2 5
EAST SOUTH CENTRAL									
Kentucky: Covington Louisvillo Tennessee:	57, 877 257, 671	0 9	2 8	0 9	0 5	1 0	0	0	2 18
Memphis Nashville Alabama:	170, 067 121, 128	5 1	7 4	5 0	0	0 3	0 15	0	7 7
Birmingham Mobile Montgomery	195, 901 63, 858 45, 383	7 2 0	3 1 1	3 0 4	1 1 0	2 0 0	1 0 0	0 5 0	14 2 0
WEST SOUTH CENTRAL									
Arkansas: Fort Smith Little Rock Louisiana:	30, 635 70, 916	1 0	2 2	0 2	0		0	. 0	6
New Orleans Shreveport	404, 575 54, 590	0 4	14 1	8 3	5 0	5 0	0	0	16 5
Oklahoma City Tulsa	101, 150 102, 018	2 1	2 3	4	8 0	1 0	1 0	0	4 0
Texas: Dallas Galveston Houston San Antonio	177, 274 46, 877 154, 970 184, 727	9 • 0 4 1	12 1 4 2	8 3 9	1 0 0	1 0 2 1	0 0	6 0	13 5 12 6
MOUNTAIN	103,121	1	_	1		•		,	
Montana: Billings	16, 927 27, 787 1 12, 037 1 12, 668	7 12 0 0	0 1 0 1	0 3 0 0	0 0 0 0	0 0 0 0	0 0 0 0	32 1 0	2 0 1 1
Idahe: BoiseColorado:	22, 806	0	0	0	0	0	0	1	0
Denver Pueblo	272, 031 43, 519	36 8	12 4	4	0	3 0	8	0	13 1
New Mexico: Albuquerque Arizona:	16,648	1	1	0	0	0	0	0	2
PhoenixUtah:	33, 899	0		0	0	0	0	0	2
Salt Lake City Nevada: Reno	126, 241 12, 429	32 0	2	4	0	0	1 0	15	10
PACIFIC	12, 120	ľ						"	•
Washington: Seattle Spokane Tacoma	1 315, 685 104, 573 101, 731	32 15 0	7 5 3	4 0 6	0 0	ō	5 0 0	16 0 3	
Oregon: Portland California:	273, 621	11	7	29	1	0	3	6	16
Los Angeles Sacramento San Francisco	666, 853 69, 950 539, 038	45 3 27	36 2 24	22 0 14	13 8 11	2 3 6	11 0 1	8 2 4	22 7 7

Population Jan. 1, 1920.

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City reports for week ended January 2, 1926—Continued

	Scarle	fever		Smallpo	)X	Tuber-	ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
NEW ENGLAND											
Maine: Portland New Hampshire: Concord	2	6	0	0	0	0	1	1 0	1 0	2 0	23 17
Vermont. Barre	1	0	0	0	0	0	0	0	0	0	1
Massachusetts: Boston	52	86	0	0	0	16	2	1	0	52	273
Fall River Springfield Worcester Rhode Island:	3 8 11	3 9	0	0	0	5 1 5	0 0	0 0	0	3 0 11	47 38 61
Pawtucket Providence	1 8	0 3	0	0	0	0 7	0	0	0	0 4	92
Connecticut: Bridgeport Hartford New Haven	6 8 8	11 6 2	0 0 0	0	· 0	1 0 1	0	0 0 0	0 1 0	9 6 12	36 48 50
MIDDLE ATLANTIC											
New York: Buffalo New York Rochester Syracuse	24 166 13 12	16 113 14 2	1 1 0 0	2 0 0 0	0 0 0	1 98 2 0	1 11 1 1	3 6 1 0	0 3 0 0	13 26 8 49	134 1,488 72 43
New Jersey: Camden Newark Trenton	3 17 3	9 19 4	0 0 0	0 0 0	0 0	2 7 2	1 2 1	0 0	0 0	2 8 0	39 129 41
Pennsylvania: Philadelphia Pittsburgh Reading	55 31 1	83 66 8	0	0 0 0	0 0	29 10 0	3 1 0	3 1 0	0 0	24 18 4	553 172 34
EAST NORTH CENTRAL											
Ohio: Cincinnati Cleveland Columbus Toledo	12 32 9 15	15 26 15 10	1 1 0 1	0 3 0	0 0	15 9 7	1 2 0 0	2 0 2 0	0 0	- 11 55 0	89
Indiana: Fort Wayne Indianapolis South Bend Terre Haute Illinois:	2 9 4 2	4 3 6 6	0 3 0 1	0 20 7 0	0 0 1 0	1 3 0 1	0 0 0	0 0	0 0	0 8 0 0	22 101 6 28
Chicago Peoria Springfield	113 6 2	120 2 1	1 1 1	0 1 0	0	51 1 1	5 0 0	5 0 0	000	24 5 3	749 14 23
Michigan: Detroit Flint Grand Rapids	79 8 8	105 6 18	3 0 1	3 0 0	0	20 3 0	0 0	0	0 0	34 34 27	327 - 22 34
Wisconsin: Madison Milwaukee Racine Superior	3 30 5 2	1 20 6 5	1 1 0 2	0 0 0	0	0 5 0	0 1 0	000	000	29 29 2 0	113 12
WEST NORTH CENTRAL											
Minnesota: Duluth Minneapolis St. Paul	5 38 19	18 44 43	0 7 5	0 0	0	0 5 2	0 1 1	0 2 0	0	2	23 97 73

¹ Pulmonary tuberculosis only.

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City reports for week ended January 2, 1926-Continued

	Scarle	lever	1	Smallpo	x	Tuber-	Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST NORTH CENTRAL—continued											
Iowa: Davenport Sioux City Waterloo	1 2 3	6 1 6	0 1 0	0 5 0			0	0		0	
Missouri: Kansas City	12	17	0	0	0	3	0	0	0	8	108
St. Joseph St. Louis	31	95	0	2		6	0 2	0		2	261
North Dakota: Fargo	2	2 0	0	0	0	0	0	0	0	0	9
Grand Forks South Dakota:	1	1	1	0			0	0		6	
Aberdeeu Sioux Falls Nebraska:	1	0	0	0	0	0	0	0	0	0	
Lincoln Omaha Kansas:	2 6	18	3	0 2	0	0	0	0	0	7	19 64
Topeka Wichita	1 3	4 0	0	0	0	0	0	0	0	3 0	14 18
SOUTH ATLANTIC								-			
Delaware: Wilmington	3	7	0	0	0	2	0	0	0	2	38
Maryland: Baltimore	24	20	0	0	0	24	3	3	0	25	255
Cumberland Frederick District of Colum	0	0	0	0	0	0	0	0	0	0	5
bia: Washington Virginia:	20	19	0	0	0	12	4	0	0	4	170
Lynchburg Norfolk	0 2	3 2	0	0	0	2 2	0	0	0	0	13
Richmond Roanoke	5	8	Ŏ	Ŏ 1	Ü	2	Ô	i	ő	0 2	44 18
West Virginia: Charleston	1	0	0	0	0	į .	0	0	0	0	12
Wheeling North Carolina:	l î	3	Q	Ŏ O	0	0 0	o o	o o	Ŏ O	O	22
Raleigh Wilmington Winston-Salem	. 0	Ŏ 3	0 1	0	0	2 1	0	0	Ô	0 3	14 11 24
South Carolina: Charleston Columbia	0	2	0	0	0	3	0	0	0	0	34
Greenville Georgia:	ŏ	ŏ	ŏ	ŏ	ŏ	ő	ŏ	ŏ	ŏ	ŏ	8
Atlanta Brunswick	4	1 0	1 0	0	0	6	0	0	0	0	105
Savannah Florida:	1	Ō	0	Ŏ	Ò	i	1	0	Ò	Õ	28 28
St. Petersburg. Tampa	0	0	0	11	0	0	0	0	0	0	12 47
EAST SOUTH CENTRAL											
Kentucky: Covington	2	2	0	0	0	1	0	0	0	0	92
Louisville Tennessee:	4	5	ŏ	ŏ	ŏ	8	ŏ	ĭ	ŏ	ŏ	23 103
Memphis Nashville Alahama:	- 4 2	8 3	0	3 0	0	2 3	0	2 2	0	0	54 61
Birmingham Mobile		1 0	1	11	0	50	1	0	0	5	70
Montgomery.	-ı 0	1 õ	1 0	1 0	1 0	· ; 0	1 0	1   0	) 0	1 0	23

# City reports for week ended January 2, 1926—Continued

	Scarlet	fever				Tuber- Typhoid fever				ever	Wheen	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- porte	re-		culo- SIS, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Whooping cough, cases reported	Deaths, all causes
WEST SOUTH CENTRAL												
Arkansas: Fort Smith Little Rock Louisiana:	1 2	0 1	0	1 0			2	0	3 0		0	
New Orleans Shreveport	4 0	8 2	0 1	3		0	17 1	3	6	2 0	1 0	173 39
Oklahoma: Oklahoma City Tulsa	2 2	2 4	1	0		0	1 0	0	1 0	0	0 5	24
Dallas Galveston Houston San Antonio	3 0 2 1	8 0 4 4	1 0 1 0	0 0 1 0		0 0 0	1 0 2 3	1 0 0 0	0 0 2 0	0 0 1 0	15 0 0 0	57 12 65 71
MOUNTAIN  Montana:												
Billings Great Falls Helena Missoula	1 1 0 1	0 5 0 5	0 1 0 0	0 2 0		0 0 0	0 0 0	0 0	0 1 0 0	0 0 0 0	0 9 1 0	8 5 4 6
Boise Colorado:	2	2	1	2	1	0	0	0	0	0	0	4
Denver Pueblo New Mexico:	10	3	3 0			0	10 0	0	0	0	21 0	91 13
Albuquerque Arizona:	0	5	0		į.	0	9	0	0	0	4	18
Phoenix Utah: Salt Lake City_	3	1	2			0	3	0	0	0	9	11 42
Nevada: Reno	0	0	0	(	1	0	0	0	0	0	0	7
PACIFIC												
Washington: Seattle Spokane Tacoma Oregon:	7 5 3	17 19 0	1 4 2	25	)	ô	1	1 0 0	0 1 0	ō	0 0 2	
Portland California:	7	13	6	*	1	0	7	0	0	0	0	
Los Angeles Sacramento San Francisco.	. 2	27 0 13	0 0	2	1 1	0	21 8 8	3 0 1	0 1	0	3 0 5	233 44 165
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		rebrospi neningit		Leth encep			Pell	agra		myelitis ıle paral	
Division, State, a	nd city	Ca	ses De	aths	Cases	D	eaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
NEW ENGLA	ND			Î								
Maine: Portland			0	1	0		0	0	Ð	0	0	0
Massachusetts: Boston Springfield			2	0	1		0	0	0	0		0
Rhode Island: Providence			1	0	0		0	0	0		1	0

City reports for week ended January 2, 1926-Continued

	Cerebr meni	ospinal ngitis		argic halitis	Pell	ngra	Palion tı	Poliomyclitis (infar tile paralysis)		
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths	
MIDDLE ATLANTIC										
New York: New York Pennsylvania:	1	1	2	1	0	0	1	2	0	
Philadelphia	2	1	0	1	0	0	0	0	0	
EAST NORTH CENTRAL										
Ohio: Cleveland Illinois:	0	0	0	1	0	0	0	1	0	
Chicago Michigan:	2	2	0	0	0	0	0	1	1	
Detroit	0	0	2	2	0	0	0	1	0	
SOUTH ATLANTIC										
Maryland: Baltimore	0	0	1	1	0	0	0	0	0	
Wirginia:	1	0	0	0	0	0	0	0	0	
Richmond South Carolina:	0	0	0	0	0	1	0	0	0	
Charleston	U	0	0	0	•	1				
EAST SOUTH CENTRAL										
Alabama: Birmingham	1	0	0	0	1	0	0	0	o	
WEST SOUTH CENTRAL										
Louisiana: New Orleans	0	0	0	0	1 0	2	0	0	0	
Shreveport Texas:	t		0	0	0	0	0	0	0	
Houston	U	1	0	0	0	0	0		· ·	
Utah:									-	
Salt Lake City	Q	1	0	0	0	0	0	0	0	
PACIFIC			ł							
Washington: Seattle Spokane	1	0	0	0	0	0	0	O		
Tacoma	2	0	0	0	0	0	0	0		
Oregon: Portland	1	1	0	0	0	0	0	0		
California: Los Angeles	0	0	1	1	0	0	0	0	- Age	
Sacramento	Ö	Ö	Ö	Ō	Ō	ő	Ö	i	. 0	

The following table gives the rates per 100,000 population for 103 cities for the 10-week period ended January 2, 1926. The population figures used in computing the rates were estimated as of July 1, 1923, as this is the latest date for which estimates are available. The 103 cities reporting cases had an estimated aggregate population of nearly 29,000,000, and the 96 cities reporting deaths had more than 28,000,000 population. The number of cities included in each group and the aggregate populations are shown in a separate table below:

Summary of weekly reports from cities, October 25, 1925, to January 2, 1926— Annual rates per 100,000 population 1

#### DIPHTHERIA CASE RATES

	Di	тити	ERIA	CASE	RATE:	>				
					Week ei	nded-				
	Oct. 31	Nov.	Nov. 14	Nov. 21	Nov. 28	Dec. 5	Dec. 12	Dec. 19	Dec. 26	Jan.
103 cities	2 182	166	174	181	159	171	164	3 163	126	4 136
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	137 149 195 282 228 97 264 2 176 157	97 126 187 267 211 137 199 286 148	127 141 194 240 252 69 213 248 145	144 143 189 226 289 132 176 315 186	104 150 162 178 221 120 181 134 165	124 137 172 280 221 126 278 239 128	107 139 166 243 205 132 185 172 200	137 147 161 180 205 97 3 253 181 186	92 108 158 187 100 80 134 172 93	147 127 138 4 167 137 120 158 115 133
	1	MEAS	LES C.	ASE R	ATES					
103 oities	² 105	154	174	229	212	353	441	³ 531	480	4 634
New England Middle Atlantic East North Central West North Central South Atlantic East South Central East South Central Most South Central Mountain Pacific	604 110 57 12 59 17 5 220 15	852 159 74 15 154 17 9 38 17	937 171 88 10 232 17 9 47 20	1, 130 256 103 15 289 51 9 29 32	827 239 124 31 353 34 5 10 26	1, 583 339 255 19 552 40 5 10 58	2, 025 453 307 25 576 23 5 38 55	2, 159 520 503 37 609 86 3 10 29 81	1, 637 384 563 70 256 126 9 29 88	2, 494 561 790 4 64 502 114 0 86 49
Name of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last o	SCA	RLET	FEVE	R CAS	E RAT	res	<del>,</del>	,	<del>,</del>	<del>,</del>
103 cities	² 160	170	191	175	205	220	231	³ 240	210	4 233
New England. Middle Atlantic East North Central West North Central South Atlantic East South Central Most South Central Most South Central Mountain Pacific	189	271 111 167 384 185 109 102 172 162	246 142 189 400 172 183 121 181 206	209 144 196 421 123 137 93 162 197	214 149 220 454 144 183 139 172 249	224 166 273 433 127 177 111 248 226	194 173 302 493 162 120 148 162 194	199 190 300 471 164 126 893 286 258	248 146 246 454 168 183 102 219 191	316 169 261 4 533 150 109 123 258 220
	8	MALI	POX	CASE	RATES	3				
103 cities	2 10	10	8	17	16	13	21	⁸ 21	18	+ 24
New England. Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central West South Central Mountain. Pacific	17 27	0 0 12 12 12 29 0 19 49	0 0 13 4 6 34 0 19	0 0 32 17 21 11 0 19 78	0 0 32 10 2 11 9 10 99	0 0 14 19 4 11 14 0 110	0 0 34 19 8 6 9 105 131	0 1 27 37 12 11 24 38 119	0 0 26 21 10 0 9 10	0 1 24 19 27 80 23 38 160

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1923.

² Helena, Mont., not included.

³ Shreveport, La., not included.

⁴ St. Joseph, Mo., not included.

Summary of weekly reports from cities, October 25, 1925, to January 2, 1926 —
Annual rates per 100,000 population—Continued

#### TYPHOID FEVER CASE RATES

					Week e	nded—				
	Oct. 31	Nov.	Nov.	Nov. 21	Nov.	Dec.	Dec. 12	Dec. 19	Doc. 26	Jin.
103 cities	² 26	28	12	17	14	20	20	3 16	9	4 10
New England. Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	17 21 16 19 27 109 83 2 88 20	22 12 19 31 64 183 51 38	2 8 9 17 10 46 60 10	32 20 3 15 31 34 32 19 6	17 14 4 8 29 23 32 19	22 26 8 10 21 57 42 0	22 25 12 12 25 29 32 19	10 17 14 15 18 29 29 10	10 11 7 4 12 6 9 19	7 7 7 4 8 12 34 51 19 9
	INI	LUEN	ZA DI	CATH	BATE	S				
96 cities	5 11	13	12	8	9	12	13	3 14	13	8 15
New England. Middle Atlantic. East North Central. West North Central. South Atlantie. East South Central. West South Central. West South Central. Mountain. Pacific.	6 29	5 14 12 7 18 40 15 10	7 14 10 13 2 29 31 0 4	2 6 6 2 14 46 10 19	12 8 5 2 10 29 36 10 4	10 10 7 7 18 46 41 19	10 12 12 7 8 51 46 19	15 8 18 4 10 57 38 0	12 9 8 7 18 34 51 29	12 10 6 8 4 16 21 34 46 29 42
	PN	EUM	NIV I	EATE	I RAT	ES				
96 cities	122	141	138	151	130	149	131	3 153	140	5 191
New England Middle Atlantie East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	137 119 99 134 114 138 2 78	139 153 125 88 207 166 163 105 95	137 144 137 83 162 177 122 181 114	144 160 146 103 156 240 163 229 91	161 145 100 83 144 194 158 162 102	186 161 149 55 170 143 163 162 102	137 132 121 85 185 200 219 181 79	164 148 139 136 213 234 2 191 124 102	171 146 106 101 219 154 183 210	221 149 9 153 4 127 286 286 321 277

² Helena, Mont., not included. ³ Shreveport, La, not included. ⁴ St. Joseph, Mo., not included.

Number of cities included in summary of weekly reports and aggregate population of cities in each group, estimated as of July 1, 1933

Group of cities	Number of cities reporting cases	Number of cules reporting deaths	Aggregate population of cities reporting cases	Aggregate population of cities reporting deaths
Total	103	96	28, 977, 311	28, 321, 626
New England Middle Atlantic East North Central West North Central South Atlantic East South Atlantic East South Atlantic West South Central Mountain Pacific	12 10 16 14 21 7 8 9	12 10 10 11 21 7 6 9	2, 098, 718 10, 304, 114 7, 135, 899 2, 515, 330 2, 542, 498 911, 885 1, 124, 564 546, 445 1, 797, 830	2, 098, 746 10, 304, 114 7, 135, 899 2, 381, 454 2, 542, 498 911, 885 1, 023, 013 540, 445 1, 377, 572

⁵ Two cities not included. ⁶ Cincinnati, Ohio, not included. ⁷ Tacoma, Wash., not included.

# FOREIGN AND INSULAR

#### THE FAR EAST

Report for week ended December 19, 1925.—The following report for the week ended December 19, 1925, was transmitted by the Far Eastern Bureau of the health section of the League of Nations' secretariat, located at Singapore, to the headquarters at Geneva:

<b>7</b> . 4	Pla	gue	Cho	olera	Sma	lpox
Port	Cases	Deaths	Cases	Deaths	Cases	Deaths
Calcutta.		0		11	11	4
Bombay		0		0	3 3	2
Madras		0		18	3	1
Rangoon		0		0	1	0
Karachi		1 0		0	3	0
Negapatam		0		1	0	0
Colombo	1	į	0	0	0 8	Õ
Basra	0	0	0	0	8	3
Singapore	0	0	0	0	0	0
Port Swettenham	0	Õ	0	0	0	Ò
Penang	0	0	0	0	0	0
Batavia	0	0	0	0	0	0
Soerabaya	0	0	0	0	2	0 2 0
Samarang Palaman Dali	Ŏ	0	0	0	0	Ŏ
Belawan Deli	0	0	0	0	0	0
Padang (Sumatra)	o o	0	0	Ö	Ü	Ň
Sabang (Rhio)	1	1	0	ŏ	0	Ŏ
Macassar Pontianaly (Pormas)	0	0	l ő	ŏ	Ö	ő
Pontianak (Borneo) Sandakan (North Borneo)	ŏ	ŏ	l ő	ŏ	ŏ	ő
Kuching (Sarawak)	Ŏ	ŏ	1 8	ŏ	ŏ	Ö
Manila	ŏ	ő		Ö	Ĭ	ž
Zamboanga	ŏ	ŏ	3 0	ŏ	ŏ	Ŏ
Bangkok	ă	ő	48	29	ŏ	ď
Saigon and Cholon	ŏ	ŏ	1 70	ő	ŏ	l a
Hongkong.	ŏ	ŏ	Ĭŏ	ŏ	ŏ	0
Shanghai	ŏ	ŏ	l ŏ	0	1	ğ
Amoy	ľŏ	ŏ	ľ	Ŏ	0	9
Nagasaki	ě	ŏ	Ŏ	Ī	Õ	Ŏ
Yokohama	Õ	ŏ	1 ò	Ŏ	Ŏ	
Simonoseki	Ŏ	Ŏ	I o	. 0	Ō	0
Moji	0	0	Ŏ	0	0	0
Kobe	0	0	0	0	1	0
Osaka	0	0	0	0	0	0
Keelung	0	0	0	0	0	0 0 2 0
Fusan	į o	Ō	0	0	0	0
Dairen	0	0	Ö	Ō	3	2
Adelaide	0	0	0	0	0	ŭ
Brisbane	0	0	0	0	0	ŭ
Fremantle.	0	0	0		ď	l ×
Melbourne	0	Ŏ	ŏ	0	ŏ	, y
Sydney Rockhampton Rockhampton	0	, ,	0	ŏ	ŏ	1 8
Townsville	Ö	- 0	1 0	ŏ	ŏ	1 8
Port Darwin	ŏ	ě	ŏ	ŏ	ŏ	l ă
Broome	Ĭ	ŏ	1 0	ŏ	ŏ	l ă
Port Moresby	ŏ	ŏ	Ĭŏ	ŏ	Ĭŏ	l ř
Honolulu		ŏ	lő	ŏ	ŏ	000000000000000000000000000000000000000
Suez	0	0	Ŏ	Ŏ	Ŏ	ĬŎ
Alexandria	ň	ň	0	0	0	l ă
Port Said	0 0 0	0	ŏ	ŏ	1 ŏ	l õ
Mombasa (Kenya)	ĺŏ	ŏ	ŏ	ŏ	Ŏ	l ā
Zanzibar	ľŏ	ď	0	0	0	l Č
Massowah.	i. Ŏ	0	Ō	1 0	. 0	) a
Djibuti	0	Ó	1 0	. 0	O	į
Lourenco-Marques	0	l o	Ó	0	0	0
Durban	0	0	. 0	0	0	) C
East London	0	0	0	0	0	, 6
Port Elizabeth	0	ĺ	0	1 0	1 0	1 6

	Pla	gue	Cho	lera	Smallpox		
Poit	Cases	Deaths	Cases	Deaths	('ases	Deaths	
Cape Town	0 1 0 1 0	0 1 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	

#### CANADA

Communicable diseases—September 13, 1925, to January 2, 1926.— The following table shows the numbers of cases of certain communicable diseases in seven Provinces of Canada by four-week periods, from September 13, 1925, to January 2, 1926. The information was supplied by the Canadian Ministry of Health.

	Nova Scotia	New Bruns- wick	Quebec	On- tario	Mani- toba	Sas- kat <b>c</b> h- ewan	Al- berta	Total
Influenza: Four weeks ended— Oct. 10, 1925. Nov. 7, 1925. Dec. 5, 1925. Jan. 2, 1926. Total								6
Smallpox: Four weeks ended— Oct. 10, 1925		1		21 14 28 30	3 1 16 14	21 3 8 9	2 1 1 12	47 19 53 67
Poliomyelitis: Four weeks ended— Oct. 10, 1925. Nov. 7, 1925. Dec. 5, 1925. Jun. 2, 1926. Total	1	1	(¹)	30 7 4			1 8 1 	40 22 5
Typhoid fever: Four weeks ended— Fot. 10, 1925 Nev. 7, 1925 Doc. 5, 1925 Jun. 2, 1926 Total	3 2 13	37 23 11 3	45 38 (1) 21	122 100 44 51	22 4 14 8	15 26 7 21	17 18 4 5	266 209 83 111
Lethargic encephalitis: Four weeks ended— Oct. 10, 1925 Nov. 7, 1925 Doc. 5, 1925 Jan. 2, 1926 Total				5 1 1 4	2 4			5 3 1 6
Cerebrospinal meningitis: Four weeks ended— Oct. 10, 1925— Nov. 7, 1925— Dec. 5, 1925— Jan. 2, 1926— Total—				3 4 1 2		1 2	1	5 6 8 4

¹ No report received.

Communicable discases—Ontario Province—December, 1925 (comparative).—During the month of December, 1925, communicable diseases were reported in the Province of Ontario, Canada, as follows:

Disease	19	925	1	924	TNI.	19	925	19	924
Discuse	Cases	Deaths	Cases	Deaths	Disease	Cases	Deaths	Cases	Deaths
Cerebrospinal meningitis Chicken pox Diphtheria German mensles Gonorrhea Influenza Lethargie encephalitis Measles	2 597 266 19 148 	25 31 1	5 852 364 11 119  10 1, 363	27 17 3 2	Mumps Pneumonia Poliomyelitis Scarlet fever Septic sore throat Smallpox Syphilis Tuberculosis Typhold fover Whooping cough	285 558 10 32 74 166 53 113	197 13 1 62 5 7	582 6 618 5 33 95 123 85 279	115 1 9  64 12 3

Smallpox prevalence.—During the month of December, 1925, smallpox was reported in 15 localities in the Province of Ontario, with 32 cases and 1 death. The greatest number of cases was reported at Asphodel and Rockland, viz, 5 each; at Trenton 4 cases were reported, at Eganville 3; at 4 'ocalities 2 cases each, with 1 death occurring at Atikokan; at 7 localities, 1 case each.

#### CANARY ISLANDS

Plague—Santa Cruz de Teneriffe—December 18, 1925.—The presence of two new cases of plague at Santa Cruz de Teneriffe, Canary Islands, was reported December 18, 1925.

#### CUBA

Communicable diseases—Habana—November and December, 1925.— During November and December, 1925, communicable diseases were reported at Habana, Cuba, as follows:

Disease	New	Deaths	Remaining under treatment Nov. 30, 1925	Disease	New cases	Deaths	Remaining under treatment Nov. 30, 1925
Beri-beri Cerebrospinal meningitis. Chicken pox Dengue. Diphtheria Leprosy.	2 1 1 1 11 11		2 1 3 8	Malaria 1  Measles Scarlet fever Parntyphoid fever Typhoid fever 1	56 75 18 1 22	7	14 28 7

Disease	New cases	Deaths	Remaining under treatment Dec. 31, 1925	Discaso	New cases	Deaths	Remaining under treatiment Dec. 31, 1925
Chicken pox	6 6 2 59	1	6 9 5	Measles_ Paratyphoid fever_ Scarlet fever_ Typhoid fever ¹	43 1 11 11	3	10 1 6 5

¹ Many of these cases were from the interior.

Malaria—Santiago.—During the week ended December 26, 1925, 29 cases of malaria with 1 death were reported at Santiago, Cuba. On January 2, 1926, 203 cases were reported present.

#### **EGYPT**

Plague—Fayoum—December 3-9, 1925—Summary and comparison with preceding year.—During the week ended December 9, 1925, a fatal case of septicemic plague was reported in the Province of Fayoum, Egypt. From January 1 to December 9, 1925, there have been reported in Egypt 138 cases of plague as compared with 365 cases reported during the corresponding period of the year 1924.

#### ESTHONIA

Communicable diseases—September-October, 1925.—During the months of September and October, 1925, communicable diseases were reported in the Republic of Esthonia as follows:

Discase	Septem- ber,1925 Cases	October, 1925— Cases	Discase	Septem- ber,1925 – Cases	October, 1925 Cuses
Diphtheria. Leprosy. Mensles. Paratyphoid fever.	59 4 3 10	52 2 1	Scarlet fevor Tuberculosis Typhoid fever	54 129 62	101 118 76

Population, census of 1922, 1,107,059.

#### FINLAND

Communicable diseases—November, 1925.—During the period November 1 to 30, 1925, 22 cases of diphtheria, 1 case of paratyphoid fever, 39 cases of scarlet fever and 1 case of typhoid fever were reported in the Republic of Finland. Population, census of 1923, 3,469,402.

#### GREAT BRITAIN (SCOTLAND)

Measles—Glasgow.—During the week ended December 19, 1925, 790 cases of measles with 17 deaths were reported at Glasgow, Scotland. Population, estimated, 1,057,100.

#### NICARAGUA

Epidemic influenza—Managua.—During the period November 10-30, 1925, influenza in epidemic form was reported present at Managua, Republic of Nicaragua.

#### PANAMA

Care of the insane—School of medicine—Panama.—Recent information states that a new hospital for the care and treatment of the insane is under construction at Panama, and is expected to be completed in July of the present year. It is also said that the care of the insane and feeble minded is provided for at Corozal, monthly, by government appropriation. The school of medicine to be constructed in connection with the proposed Bolivarian University is expected to be opened in June 1926, on the occasion of the university inauguration ceremonies.

#### CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

#### Reports Received During Week Ended January 22, 1926 ¹ CHOLERA

Place	Date	Cases	Deaths	Remarks
India				Nov. 1-7, 1925; Cases, 1,693;
Calcutta	Nov. 22-28	43	42	deaths, 964.
Madras		42	15	
Rangoon		1	1	
	PLA	.GUE		
British East Africa:				
Kenya-	ł	1		
Kisumu	Nov. 22-28		1	
Uganda Protectorate	September, 1925	103	85	
Canary Islands.		1	1	
Santa Cruz de Tenerife	Dec. 18	2		
Ceylon:		1	1	
Colombo	Nov. 22-28	1	1	
Egypt				Dec. 3-9, 1925: One fatal case.
	İ			Jan. 1-Dec. 9, 1925; Cases, 138;
	ł			corresponding period, 1924, cases, 365.
Fayoum Province	Dec. 3-9	1	1	
India	,Dec. 8-5	_		Nov. 1-7, 1925: Cases, 1,169;
Mudras Presidency	Nov. 1-7	33	16	deaths, 780.
Rangoon	Nov. 15-21	6	6	delicas, root
Java:		1	_	
Batavia	Nov. 21-27	29	28	
Djokjakarta	Nov. 9			Epidemic in one locality.
Soerabaya	Nov. 8-14	6	7	_
Siam:	<b>.</b>	_		
Bangkok	Nov. 15-21	2	2	
	SMAL	LPOX		
	1	<u> </u>	1	1
Algeria:		1	1	, i
Algiers	Nov. 21-30	12	1	
, Do	Dec. 1-10	46		
British East Africa:			I	
Kenya-		1	1.	
	Nov. 15-28	9	3	From mainland; Nov. 22-28, 1925,
Uganda Protectorate	Sept. 1-30	7	4	contact cases.

From medical officers of the Public Health Service, American consuls, and other sources.

### CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER-Continued

#### Reports Received During Week Ended January 22, 1926—Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Canada Ontario Province Toronto				Sept. 13, 1925-Jan. 2, 1926: In seven provinces, 186 cases, December, 1925: Cases, 32; deaths, 1. Occurring in 15 localities.
China: Foochow Manchuria— Dairen Shanghai.	Nov. 15-21 Nov. 16-29 Nov. 22-Dec. 5		4 10	Present.  Cases, foreign; deaths, foreign and native; in international settlement.
Egypt: Alexandria Great Britain: England and Wales	Dec. 13-19	1 180	1	
Hull Newcastle-on-Tyne Sheffield India Bombay	do do Dec. 6-12 Nov. 22-28		3	Nov. 1-7, 1925: Cases, 1,154; deaths, 244.
Calcutta Karachi Madras Rangoon	do	5 4 3	4 2 1	ugaria, 244.
Iraq: Bagdad Java: Batavia Soerabaya	Nov. 22-Dec. 5 Nov. 14-27 Oct. 25-Nov. 14	5	9	Province and city.
Mexico: Durango Guadalajara Portugal:	Dec. 1-31		1 3	
Lisbon	TYPHUS	<u> </u>	R	
Algeria:	Nov. 1-30	1		
Chile: Valparaiso Mexico: Durango	Nov. 29-Dec. 5 Dec.1-31		1	
Guadalajara Mexico City	Dec.29-Jan. 4. Dec. 13-19	1	1	Including municipalities in Federal District.
Palestine: Jaffa Poland Union of South Africa:	Dec.1-7 Oct. 18-31	37	2	
Cape Province	Nov. 8-14			Outbreaks in two districts.

#### Reports Received from December 26, 1925, to January 15, 19261

#### CHOLERA

Place	Date	Cases	Deaths	Remarks
India Calcutta Madras Rangoon Japan	Nov. 1-21 Nov. 15-28 Nov. 8-14 Aug. 30-Sept. 19	58 3 2 121	47 3 2	Oct. 18-31, 1925: Cases, 3,027 deaths, 1,785.

¹ From medical officers of the Public Health Service, American consuls, and other sources.

# CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER—Continued Reports Received from December 26, 1925, to January 15, 1926—Continued

#### CHOLERA-Continued

Place	Date	Cases	Deaths	Remarks
Philippine Islands:	Nov. 9-22	4	3	
Province— Bulacan	Oct. 18-Nov. 7	92	64	*
Pampanga Rizal Russia	Nov. 1-7 Sept. 27-Oct. 24 May-June	70 7	1 21	
Siam.  Bangkok.  On yessel	Oct. 4-31 Nov. 1-14	60 48	30 38	Infection stated to have been imported on vessel.
Steamship	Oct. 3	9		Arrived at Bangkok, Siam; 9 cases in coolie passengers.
	PLA	GUE	l	
Brazil:	37 0.14			
BahaiaSantosCeylon:	Nov. 8-14 Dec. 8-21	2	2	
ColomboChina.	Nov. 15-21	2	2	
Nanking Ecuador:	Nov. 15-Dec. 5			Prevalent.
Guayaquil	Nov. 1-Dec. 15	15	8	Rats taken, Nov. 1-Dec. 15, 1925; 36,576; rats found infected, 214, Jan. 1-Nov. 18, 1925; Cases, 137,
Egypt Beni Suef Greece:	Nov. 18	1	î	Corresponding period, 1924 Cases, 360.
Athens Patras	Nov. 1-30 Nov. 13	18 1	4	Including Piræus.
India Karachi Madras	Nov. 1-14 Oct. 25-31	3 42	2 25	Oct. 18-31, 1925: Cases, 2,584; deaths, 1,696.
Rangoon Java: Batavia	Oct. 25-Nov. 14 Oct. 21-Nov. 6	9 94	3 89	Province.
Do	Nov. 14-20 Sept. 27-Oct. 17 dodo.	107	100 166 42	Do.
Soerabaya Do	Oct. 11-24 Oct. 25-Nov. 7	13	13	
Tegal Madasgascar: Province—	Sept. 27-Oct17	6	6	
Fort Dauphin  Itasy  Moramanga  Tananarive	Sept. 16-Oct. 15 Sept. 16-Oct. 31 dodo	5 20 17 174	20 17 159	
Town— Tamatave (port)——— Do————	Sept. 16-30 Oct. 16-31	1 4	2 4	
Tananarive	Sept. 16-30 Sept. 20-Oct. 17	2 5	5	
Russia Senegal Siam	May-June September, 1925 Aug. 23-Sept. 5	67	12 20	
Syria: Beirut Union of South Africa:	Nov. 11-20	1		
Cape Province— Steynsburg district	Nov. 15-21	. 1		Native. On farm.
	SMAI	LPOX		
Arabia: Aden	Nov. 29-Dec. 5	1		Imported.

1 72

Argentina:
Rosario
Brazii:
Rio de Janeiro
Nov. 1–28

# CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER—Continued Reports Received from December 26, 1926, to January 15, 1926—Continued

#### SMALLPOX-Continued

British South Africa:   Southern Rhodesia	1 1 2 1 2 1 2 1 5 1 2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Deaths	Remarks  Native.  From Drumheller, vicinity of Calgary.  Present.  Do.  Do.
Nov. 13-19	1 2 1 2 1 3 1 5 1 2		From Drumheller, vicinity of Calgary.  Present.  Do.  Do.
Southern Rhodesia	1 2 1 2 1 3 1 5 1 2		From Drumheller, vicinity of Calgary.  Present.  Do.  Do.
Alberta—	2 1 2 3 1 5 1 2		Calgary.  Present.  Do.  Do.
Calgary         Dec. 13-19           Manitoba—         Winnipeg           New Brunswiek—         do           Northumberland         Dec. 6-13           Ontario—         Dec. 6-12           China:         Oct. 25-Nov. 21           Antung         Dec. 7-13           Chungking         Nov. 15-21           Foochow         Nov. 14-21           Manchuria—         An-shan           Dairen         Oct. 19-Nov. 15           Mukden         Oct. 24-Nov. 15           Tieh-ling         do           Nanking         Nov. 21-Dec. 5           Shanghai         Oct. 25-Nov. 21	2 1 2 3 1 5 1 2		Calgary,  Present.  Do.  Do.
Manitoba—         Winnipeg.           New Brunswiek—         Dec. 6-13.           Northumberland.         Dec. 6-12.           China:         Dec. 7-13.           Antung.         Dec. 7-13.           Chungking.         Nov. 15-21.           Foochow.         Nov. 1-44.           Hankow.         Nov. 14-21.           Manchuria—         An-shan.         Dec. 6-12.           Dairen.         Oct. 19-Nov. 15.           Mukden.         Oct. 24-Nov. 15.           Tieh-ling.         do.           Nanking.         Nov. 21-Dec. 5.           Shanghai.         Oct. 25-Nov. 21.           Swatow.         Nov. 22-Dec. 5.	1 2 1 3 1 5 1 2		Calgary.  Present.  Do.  Do.
Winnipeg	1 2 1 3 1 5 1 2		Do. Do.
Northumberland   Dec. 6-13.	1 2 1 3 1 5 1 2		Do. Do.
Northumberland   Dec. 6-13.   Ontario	2 3 1 5 1 2		Do. Do.
Ontario—         Ottawa           China:         Oct. 25-Nov. 21           Antung         Dec. 7-13           Chungking         Nov. 15-21           Foochow         Nov. 1-14           Hankow         Nov. 14-21           Manchuria—         An-shan         Dec. 6-12           Dairen         Oct. 19-Nov. 15           Mukden         Oct. 24-Nov. 15           Tieh-ling         do.           Nanking         Nov. 21-Dec. 5           Shanghai         Oct. 25-Nov. 21           Swatow         Nov. 22-Dec. 5	3 1 5 1 2		Do. Do.
China:         Oct. 25-Nov. 21           Antung         Dec. 7-13           Chungking         Nov. 15-21           Foochow         Nov. 1-14           Hankow         Nov. 1-12           Manchuria-         An-shan           Dairen         Oct. 19-Nov. 15           Mukden         Oct. 24-Nov. 15           Tieh-ling         do.           Nanking         Nov. 21-Dec. 5           Shanghai         Oct. 25-Nov. 21           Swatow         Nov. 22-Dec. 5	3 1 5 1 2		Do. Do.
Amoy	3 1 5 1 2		Do. Do.
Antung Dec. 7-13.  Chungking Nov. 15-21  Foochow Nov. 1-44  Hankow Nov. 14-21  Manchuria—  An-shan Dec. 6-12.  Dairen Oct. 19-Nov. 15.  Mukden Oct. 24-Nov. 15.  Tieh-ling do.  Nanking Nov. 21-Dec. 5.  Shanghai Oct. 25-Nov. 21  Swatow Nov. 22-Dec. 5.	3 1 5 1 2		Do.
Foochow	1 5 1 2		Do.
Hankow	1 5 1 2		
Manchurua—         Dec. 6-12.           An-shan.         Oct. 19-Nov. 15.           Dairen.         Oct. 19-Nov. 15.           Mukden.         Oct. 24-Nov. 15.           Tieh-ling.         .do.           Nanking.         Nov. 21-Dec. 5.           Shanghai.         Oct. 25-Nov. 21.           Swatow.         Nov. 22-Dec. 5.	1 5 1 2		Do
An-shan Dec. 6-12. Dairen Oct. 19-Nov. 15 Mukden Oct. 24-Nov. 15 Tieh-ling do. Nanking Nov. 21-Dec. 5. Shanghai Oct. 25-Nov. 21 Swatow Nov. 22-Dec. 5.	5 1 2		Da
Minker	1 2 6		Do
Mikken	2 6	4	Do
Nanking       Nov. 21-Dec. 5         Shanghai       Oct. 25-Nov. 21         Swatow       Nov. 22-Dec. 5	6	4	Do
Shanghai		4	
Swatow Nov. 22-Dec. 5			20.
	1		Do.
Tientsin Nov. 1-7			-
France			September, 1925: Cases, 25.
Great Britain: England and Wales Nov. 15-Dec. 12	432	1	
England and Wales Nov. 15-Dec. 12 Hull Nov. 29-Dec. 12	8		
Newcastle-on-Typedo	4		
Sheffield Nov. 22-28	5		
Greece.			Oct. 1-31, 1925: Cases, 16.
Athens Nov. 1-30 India	17	1	Oct. 18-31, 1925; Cases, 2,303
Bombay Nov. 8-21	9	4	deaths, 530.
Calcutta	10	5	
Karachi Nov. 1-21	23		
Madras Nov. 15–28 Oct. 25–31	3 1	1	
Rangoon Oct. 25-31			Sept. 6-19, 1925; Cases, 41; deaths
Bagdad Nov. 1-14	4	4	24.
Italy			Aug. 2-Sept. 30, 1925: Cases, 26
Rome Oct. 12-25	1		
Japan: Tajwan Nov. 11-20	1		
Java:	•		
Batavia Oct. 24-30	1		
Kraksaan Oct. 11-17	11		
Malang do Oct. 4-17	2 4		
ProbolingoOct. 11-17	i		
Soerahaya Oct. 11-24	158	18	
South Bantamdodo	1		
Tegal Oct. 4-10	.9	1	
Malta November, 1925 Mexico	14	~~~~~	July-August, 1925: Deaths, 905
Agussalientes Dec. 13-26	4	2	l vary-ragast, 1020. Dentas, voc
Mexico City	ī		
Torreon Nov. 1-30		15	
Persia:			
Teheran		68	
Arequipa Oct. 1-31		1	
Portugal:		1 -	
Lisbon Oct. 4-31	124		
Do		31	
Do	70	2	1
Russia.			May-June, 1925: Cases, 1,336
Siam			May-June, 1925: Cases, 1,336, July 12-Sept. 5, 1925: Cases, 21
		1	deaths. 6.

# CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER—Continued Reports Received from December 26, 1925, to January 15, 1926—Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Spain: Malaga Switzerland	Nov. 29-Dec. 5		2	June 28-Oct. 24, 1925: Cases, 36.
Lucerne	Oct. 1-31	6		vane 25-0ct. 24, 1920. Cases, 30.
Tunisia: Tunis	Nov. 21-30	2		
	TYPHUS	FEVE	R	<u></u>
Algeria:				
AlgiersArgentina.	October, 1925	2		
Rosario	Oct. 1-31	1		
China: Antung	Nov 29-Dec. 6	4	1	
Egypt: Port Said	Nov. 19-25	1		
FinlandGreece:				October, 1925. One case.
AthensLatvia		11 2	2	
Lithuania				September, 1925: Cases, 8; deaths,
Mexico				July-August, 1925; deaths, 65.
Guadalajara	Dec. 14-19 Dec. 8-28	1	2	
Mexico City Torreon	Nov. 22-Dec. 12 November, 1925	39		
Palestine: Nazareth	Nov. 3-9	1	_	
Safad	Nov. 24-30	1		
Tel-Aviv Peru:	do	1		
ArequipaPoland	October, 1925 Oct. 11-17	17	2 3	
Rumania Russia				July, 1925: Cases, 74; deaths, 9. May-June, 1925: Cases, 7,609.
Union of South Africa				October 1-31, 1925; Cases, 88;
Cape Province	Oct. 1-31	63	5	deaths, 7 (colored); cases, 7 (European population). Colored.
NatalOrange Free State	do	1 23	i	Do. Do.
DoTransvaal	Nov. 1-7 Oct. 1-31			Outbreaks.
Transvaai	Oct. 1-31	1	1	

# TREASURY DEPARTMENT

# PUBLIC HEALTH: REPORTS

ISSUED WEEKLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

Volume 41 :: :: Number 5

JANUARY 29 - 1926

# SPECIAL ARTICLES :

Typhoid Fever in the United States During 1925 Abstracts of Court Decisions Relating to Public Health



WASHINGTON
GOVERNMENT PRINTING OFFICE
1926

#### UNITED STATES PUBLIC HEALTH SERVICE

HUGH S. CUMMING, Surgeon General

#### DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg. Gen. B. J. LLOYD, Chief of Division

The Public Health Reports are issued weekly by the United States Public Health Service through its Division of Sanitary Reports and Statistics, pursuant to acts of Congress approved February 15, 1893, and August 14, 1912.

They contain: (1) Current information of the prevalence and geographic distribution of preventable diseases in the United States in so far as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other communicable diseases throughout the world. (2) Articles relating to the cause, prevention, or control of disease. (3) Other pertinent information regarding sanitation and the conservation of the public health.

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# PUBLIC HEALTH REPORTS

VOL. 41

**JANUARY 29, 1926** 

No. 5

## TYPHOID FEVER IN THE UNITED STATES, 1925

Reports from State Health Officers of 41 States for 11 Months of the year 1925

The reports of cases of typhoid fever received from State health officers for 11 months of the year 1925 show a reaction from the general downward trend which has been observed for many years.

Preliminary reports of cases of this disease from the health officers of 41 States, covering the first 11 months of the year 1925, show an increase over the same period in 1924 of 45 per cent. An increase is noted in all the groups of States except New England and the Pacific coast. The increase by quarters is as follows: January to March, 2 per cent; April to June, 58 per cent; July to September, 54 per cent; October and November, 47 per cent.

Some of the apparent increase is undoubtedly due to more nearly complete reporting of cases which has resulted from increased activity of State and local health departments and improvements in methods of securing reports of communicable diseases. This remark applies especially to some of the Southern and Southeastern States.

Final figures for the year will not be received from these States for some time, but, judging from the experience of former years, the final figures will not materially change the results.

It should be borne in mind in considering these figures that the number of cases in 1924 was very low as compared with the number a few years ago.

A comparison of the number of cases of typhoid fever in 1925 with similar figures for some of the States for 1915 and 1916 shows that the 1925 figures are generally lower. Records of cases which are comparable with present records are available for only a few years; but the death rate from typhoid fever in the registration area dropped from 31.3 per 100,000 population in 1900 to 6.7 in 1924. This indicates that the 1925 case rates would appear very low if we could compare them with case rates of 20 years ago.

73524°---26†----1

The following table gives the preliminary reports of cases of typhoid fever for the first 11 months of 1923, 1924, and 1925:

Cases of typhoid fever reported during 11 months of 1925, by State health officers, compared with similar reports for the years 1923 and 1924

				·	
	First quarter	Second quarter	Third quarter	October and No- vember	Total, 11 months
New England:					
Maine—	10	- 00	90	72	040
1925 1924	46 35	29 52	151	75 80	240 318
1923	37	52 48	64	48	318 197
Vermont—					
1925.	12	4	13	2	31
1924	.7	4	22 10	8	37
1923. Massachusetts—	11	13	10		42
1925	121	104	230	103	558
1924	85	110	192	106	493 590
1923.	99	136	219	136	590
Rhode Island—	10		40	12	84
1925 1924	8	14 8	48 28	20	64
1923	l ğ	5	21	13	48
Connecticut					
1925	40	43	.93	59	235
1924	25 21	30	107 137	43 82	205 268
1923	21	28	197	- 04	200
Total—					
1925	229	194	474	251	1, 148 1, 117 1, 145
1924.	160	204 230	500	253	1, 117
1923	177	230	451	287	1, 145
N.C. 227. Adjuntion					
Middle Atlantic: New York—				The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
1925	584	473	1,065	551	2,673
1924	465	554	931	571	2, 673 2, 521 2, 107
1923	308	360	971	468	2, 107
New Jersey—	700		040		698
1925	122	80 89	346 197	150 151	520
1924 1923	83 61	110	271	137	579
Pennsylvania—	٠.	*10		10.	Marketon .
1925	252	260	1,090	685	2, 287 1, 928 2, 241
1924	306	272 341	859	491	1, 928
1923	320	341	940	622	2, 241
Total—					
1925	958	813	2, 501	1, 386	5, 658
1924	854	915	1,087	1, 213	5, 658 4, 969
1923	698	811	2, 501 1, 087 2, 191	1, 386 1, 213 1, 227	4, 927
East North Central:					
Ohio—					, deux
1925	186	190	918	581	1, 8,
1924.	187	216	606	337	1.341
1923	143	195	864	410	より
Indiana—	00	100	-10		Alt Sounds.
1925 1924	96 86	109 118	542 289	244 201	901
1923	36	80	232	138	604 486
Illinois-	00	30	202	100	200
1925	252	252	812	516	1, 832
1924	272	183 174	483	300	1, 832 1, 238
1923.	185	174	652	574	1, 585
Michigan— 1925	122	102	336	300	000
1924	104	150	280	186	860 720
1923	180	125	343	282	720 930
Wisconsin-	l				
1925	28	43	96	91	258
1924	57	82	64	38	241 312
1923	61	55	97	99	812
Total-				<del></del>	
1925	684	AGA	2.704	1. 739	F 210
1924	706	696 749	2,704 1,722 2,188	1, 732 1, 062	5, 816 4, 239
	605	629	9 100	1, 503	4, 925
1923	600	02.0	ې تن د د د د د د د د د د د د د د د د د د	1,000	4.020

Cases of typhoid fever reported during 11 months of 1925, by State health officers, compared with similar reports for the years 1923 and 1924—Continued

	Fırst quarter	Second quarter	Third quarter	Octoher and No- vember	Total, 11 months
West North Central:					
Minnesota—					
1925 1924	66 70	34 96	125 107	80 43	305 316
1923	47	79	177	107	410
Missouri—					
1925 1924	49 67	85 38	594 363	332	1,060
1923	44	103	376	180 173	648 696
North Dakota—	l				
1925 1924	12 15	4 59	36	61	113
1923	8	8	20 54	17 44	111 114
South Dakota—	1				İ
1925	31	9	75	42	157
1924 1923	18 16	14 20	84 34	45 13	161 83
Nebraska—	10	20	0.4	10	2.9
1925	19	6	32	19	76
1924 1923	7	6	19	11	43
Kansas—	14	8	31	8	64
1925	25	73	473	166	737
1924	38	76	338	118	570
1923	24	78	561	135	798
Total—					
1925	202	211	1,335	700	2,448
1924	215	289	931	414	2, 448 1, 849
1923	153	296	1, 236	480	2, 165
South Atlantic:					
Delaware—		1 _			
1925 1924	6 9	5 9	45 24	45 12	101 54
1923	5	6	45	30	86
Maryland—		ļ			1
1925	98	87	643	363	1, 191
1924 1923	107 77	135 116	478 617	189 333	909
District of Columbia—		i	1	ì	
1925	43	21	39	18	121
1924 1923	14	12 21	50 58	22 26	98 114
Virginia-	1		00	20	114
1925	91	371	965	356	1, 783
1924	130	255 356	865	205	1, 455 1, 918
West Virginia—	94	300	1,126	342	1, 919
1925	247	113	661	485	1,506
1924.	175	151	428	228	980
1923	108	170	633	378	1, 289
1925	18	825	1.119	373	2, 335
1924	16	153	1, 119 237	28	434
1923	21	135	143	58	357
Goorgia— 1925	71	514	1,036	309	1, 930
1024	32 47	55	400	102	589
1923	47	125	378	78	628
Florida— 1925	129	205	253	111	698
1024	128	162	180	98	568
1923	152	208	139	60	559
Total			<u> </u>	<u> </u>	
1925	703	2, 141	4, 761	2, 060	9,665
1924	611	932	2, 660 3, 139	884	5, 087
1923	513	1, 137	3, 139	1, 305	6,094
East South Central:					
Alabama					
1925	158	469	1, 142 1, 270 1, 101	375	2, 144
1924 1923	143 166	200 379	1, 270	360 238	1, 973 1, 884
Tarana a ta a a a a a a a a a a a a a a a a	1 200	, 010	, 1,101		, wyour

Cases of typhoid fever reported during 11 months of 1925, by State health officers, compared with similar reports for the years 1923 and 1924—Continued

	·				
	First quarter	Second quarter	Third quarter	October and No- vember	Total, 11 months
T C					
East South Central—Continued Mississippi—					
1925	340	1, 106	2, 104 1, 193	700	4, 250 2, 329
1924	257 145	362 382	1, 193 888	517 229	2,329
1923	145	302	888	229	1, 644
Total-					
1925	498	1, 575	3, 246	1,075	6,394 4,302
1924 1923	400 311	562 761	2, 463 1, 989	877 467	4,302 3,528
1920	011	701	1, 505	207	0,020
West South Central:	1	İ	ļ		
Arkansas—	1 114	240	708	010	
1925 1924	114 110	78	477	249 219	1,311 884
1923	- 60	75	473	191	799
Louisiana-	i .				i
1925	266 123	613 227	861	333	2,073
1924	143	246	431 369	268 136	1, 049 894
Oklahoma—	1 110	1		100	001
1925	230	409	1, 516	737	2,892
1924	77	87 85	346 333	317	827 811
1923	73	85	333	320	811
Total—					
1925	610	1, 262	3, 085	1,319	6, 276
1924	310	392 406	3, 085 1, 254 1, 175	804	6, 276 2, 760 2, 504
1923	276	400	1,175	647	2, 504
Mountain:					
Montana					
1925	16	22	140	45 30	223 121
1924 1923	18 15	28 18	45 71	47	151
Wyoming—	10	1			•
1925	41	5	21	25	92
1924	10	7 5	17	11	45
1923	0	8	32	23	, 00
1925	30	33 23	207	123	393
1924	45	23	115	41	224
1923 New Mexico—	21	43	208	117	38
1925	20	36	154	174	384
1924	29	39	183	203	454
1923	33	16	166	118	333
Arizona— 1925	10	30	49	48	108
1924	10	30	41	15	137 92
1923	7	22	22	15 17	68
Total—					
1925	117	126	571	415	1 990
1924	108 76	126 127 104	401	300	1, 229 936
1923	76	104	409	322	1,001
Pacific:					
Washington—					
1925	73	45	162	87	367 394
1924 1923	54 70	63 75	188 242	89	394
Oregon—	70	/3	242	133	520
1925	34	32	103	50	219
1924	29	45	89	41	201
1923California—	17	19	63	55	154
1925	115	163	400	117	795
1924	695	328	352	299	1, 674
1923	111	178	312	221	822
Total—					
1925	222	240	665	254	1,321
1924	778	436	629 617	429	1,381 2,272
1923	198	272	617	409	1,496
Grand total—					
1925	4. 223	7, 258	19, 342	9.192	40, 015
1924 1923	4, 223 4, 142	4,006	12, 547	9, 192 6, 236	27, 531 27, 785
1928	3,007	4,646	13, 485	6, 647	27, 785
		1		ŀ	ļ.

# RESOLUTION REGARDING SMALLPOX IN TRIMBLE COUNTY, KY.

In view of an epidemic of smallpox in Trimble County, Ky., the board of health of that county recently passed the following resolution regarding isolation, notification of cases, and vaccination:

Whereas there is at this time existing in the county of Trimble a number of cases of smallpox, most of which are under quarantine at this time: Be it

Resolved, That the county board of health instruct the county health officer to see to it, as his official duty, that each person suffering, or thought to be suffering, with smallpox is confined to his respective home or to any other place that he deems advisable for the protection of the county; and

Whereas they further declare that it is the duty of every practicing physician in the county faithfully to report every case of smallpox or suspected case of smallpox to the county health officer promptly upon its recognition; and

Whereas there are other physicians who are accustomed to practice in Trimble County who are residents of the adjacent counties, and it is their duty to report any case of smallpox to the county health officer of Trimble County, and that where there is any question at issue as to what county any such case of smallpox is in, that reports shall be made to both county health officers, with explanation of the question in doubt; be it further

Resolved, That the county board of health further instruct the county health officer to promulgate to the county superintendent and the board of education the fact that there is at this time an epidemic of smallpox in this county and further instruct the county health officer to enforce the law in regard to vaccination.

#### HEALTH AND SANITATION IN NICARAGUA

The following is an excerpt from a report received through official channels, briefly outlining health and sanitary conditions and health organizations as they exist to-day in Nicaragua:

General sanitary conditions.—The general sanitary conditions of the country as a whole are good, relatively speaking, at the present time. There are no major epidemics of any dangerous communicable diseases present anywhere in the country. Yellow fever has not existed here since the epidemic of 1919; smallpox, while occurring occasionally in sporadic cases, is not epidemic anywhere in the country; bubonic plague has never made its appearance in the country; typhoid fever is present, but not epidemic in any of the larger cities (Granada has recently had several cases of typhoid); typhus fever is unknown here; malaria is endemic in all of the coastal regions, but has not been excessively prevalent for more than four years. Measles, chicken pox, whooping cough, and other similar diseases of childhood, are present, and exist in semiepidemic form in several sections. The measles epidemic of last year did tremendous damage, causing hundreds of deaths among the poorly nourished children of the poorer classes. At present, measles is confined to a few sporadic cases in the towns and cities which were infected last year. Influenza is not present in epidemic form, but is probably present. Dengue fever occurs

here. The campaign for the control of disease-bearing mosquitoes which has been carried out in all of the large towns and cities is probably responsible for the small number of dengue fever cases occurring here.

Sanitary organization and administration.—Until the 1st of July, 1925, the Republic of Nicaragua did not have a national health organization for the protection of the public health. During the last session of Congress, however, a law was passed authorizing the establishment of a national department of health. This law went into effect on July 1. Dr. Luis Manuel Debayle was appointed head of the new department.

The department automatically assumes charge of all of the work previously carried on under the auspices of the International Health Board. The department of uncinariasis, which was the organization through which the International Health Board cooperated with the Government of Nicaragua in a campaign for the control and eradication of hookworm disease prior to the organization of the health department, has become the division of rural sanitation of the health department, and the work of the former department of uncinariasis will be continued by the new government agency. The diagnostic laboratory organized about three years ago by the cooperative efforts of the International Health Board and the Government of Nicaragua becomes the division of laboratories and research of the health department. In addition, a division of school hygiene and another of sanitation and sanitary engineering have been organized, thus endowing the health department with a personnel adequate for the needs of the country. The division of sanitary engineering is carrying on and extending the antimalarial work which was begun in several of the most highly infected malarial towns of the country during last year as a cooperative campaign financed jointly by the Government of Nicaragua and the International Health Board. Sanitary organization in each of the civil departments of Nicaragua is going forward, such an organization having already been effected in the departments of Managua, Leon, Chinandaga, and Rivas.

Adequate measures are taken in the ports to prevent the introduction of epidemic disease from the outside. In fact, the Government is fast remedying the condition which formerly existed here, and is giving the health department full support.

# NEW REGULATIONS REGARDING THE IMPORTATION OF TRANSFORMED MILK INTO COLOMBIA

The American consul at Barranquilla, Colombia, reports the following new regulations governing the importation of transformed milk, promulgated by the Department of Health of Colombia, to take effect May 15, 1926:

#### CONDENSED MILK

Condensed milk which is to be used for the feeding of children must, among other requirements, conform to the following: It must contain a proportion of fat not less than 9 per cent; it must contain no antiseptics nor other foreign substances, excepting cane sugar which may be used as a preservative; and if the milk does not contain cane sugar it must be sterilized in the container.

Condensed milk from which the cream has not been taken must be contained in soldered tins carrying wrappers on which it is stated in Spanish that the cream has not been taken out, and which also give the proportion of fat that the milk contains, the date of canning, and

the time limit within which the milk is good for use.

Condensed milk from which the cream has been taken must be canned in the manner above mentioned, and the can must carry a wrapper stating in Spanish, in easily visible letters, that it is without fat at all or in part, and that it must not be used for feeding children except upon a physician's prescription. It must state the date of canning and the time limit within which it is good for use. Milk from which the cream has been taken, if placed on sale for public consumption without fulfilling this requirement, will be confiscated.

#### MILK POWDER

Milk in powder form must be placed in soldered tins which carry a wrapper stating in Spanish whether or not the cream has been removed, and if not, the quantity of fat it contains. If the cream has been taken out, it must be stated that the milk powder must not be used for the feeding of children except on a physician's prescription. Whether or not the cream has been removed, the date on which the milk was canned and the time limit during which it is good for use must be stated.

The consuls of Colombia abroad are instructed not to certify any invoice of transformed milk destined to Colombia unless it is accompanied by a certificate stating that the conditions which are required in the exporting country regarding the preparation and consumption of food products have been complied with.

Products which do not fulfill the requirements specified in the above-mentioned regulations will be confiscated in the customs.

It is stated that these regulations have been brought about by the frequent complaints which have been received at the department of health regarding the serious defects in the condensed milk imported into Colombia.

#### SOCIAL SERVICE HEALTH WORK IN BOMBAY

According to a recent consular report, the social reform movement among the Hindus, which began in the last century with the purpose of easing the lot of widows, is gathering momentum and increasing its field for relief, which now includes hygiene and sanitation, health education, and medical relief to the needy.

The report cites specifically the work of the Social Service League of Bombay as an example of social welfare societies in Bombay. This league has among its aims the following:

- 1. The securing of better living and working conditions.
- 2. The providing of more facilities for education by establishing day and night schools, lecture courses, reading rooms, and libraries.
- 3. Provision of medical relief.
- 4. Encouragement of and providing means for wholesome recreation.
- 5. Promoting sanitation and hygiene—personal, domestic, and public.
- 6. Combating prostitution and other vices.
- 7. Rehabilitation of convicts and criminals.

The present work of the league is stated to be—(1) The promotion of education; (2) Sanitary and hygiene work; (3) Medical relief;

(4) Encouraging open-air recreation; (5) Social work; (6) Improvement in economic status; (7) Welfare work for factory workers; and (8) Propaganda.

In its report for 1924 the league states, among other activities, that it maintained two charitable dispensaries, three Boy Scout Troops, and four gymnasia; and, at the end of the year, it had under its management nine night schools. It gave 44 stereopticon lectures in various localities, among the subjects of which were sanitation, infant welfare and maternity care, tuberculosis, malaria, and dental hygiene. During the year, 16,739 patients were given dispensary treatment, and milk was supplied to needy women and children.

## ABSTRACTS OF CURRENT PUBLIC HEALTH COURT DECISIONS

Vencreal disease quarantine upheld.—(California First District Court of Appeal; decided August 26, 1925.) A woman was ordered quarantined at the county hospital by the health officer of the city and county of San Francisco, she having been found, after an examination, to be suffering from genococcus infection. She sought her release through habeas corpus proceedings, claiming that such detention was unlawful for the reason that the health officer was without authority to control the body of the petitioner, such power residing alone in the State board of health. Section 2979a of the State political code made it the duty of such health officer "to take such measures as may be necessary to prevent the spread of such disease," genococcus infection being included in the list of diseases named in the section. In denying the application for the writ, the court stated as follows:

While the section [section 2979a of the political code] does not in express terms confer upon the officer in question the right to take possession or control of the body of one so afflicted as it does in the case of State board of health, the isolation of one afflicted with an infectious disease is a reasonable and proper measure to prevent the increase and spread thereof. (Ex parte Fisher, 239 Pac. 1100.)

Collection of garbage by city held to be governmental function and damages denied injured municipal employee.—(Arizona Supreme Court; decided October 17, 1925.) The plaintiff was employed by the defendant, the city of Phoenix, in loading and unloading an auto truck used by the city in the collection of garbage. While the truck was hauling garbage, the driver, another city employee, lost control of the machine, due to running at excessive speed and to defective brakes and steering gear. The plaintiff, riding on the truck, was seriously injured in jumping from the truck when the same was about to run into a deep canal. A demurrer, filed on the ground that the city was operating the truck in the exercise of a governmental function, was upheld by the lower court, and the plaintiff appealed. The supreme court affirmed the judgment, the following being a portion of the opinion:

The courts have, therefore, from an early time held that, when acting in its governmental capacity, it had the exemptions of the sovereignty, but while for its quasi private benefit it was subject to the liabilities of an individual. This rule is of such almost universal acceptance in the jurisdictions which have adopted the theory of the exemption of the State that we accept it as the undoubted law of Arizona. The authorities are so united on this point that no extensive citations are necessary. 28 C. J. 1527, 1528, and note.

When, however, we come to the application of the rule, we find the utmost confusion as to where and how the line of demarcation should be drawn. We therefore consider the cases involving negligence occurring in work like that in which plaintiff in this case was engaged, viz, the sanitary service of the city. Almost without exception these hold that such work is governmental in its nature, and that the municipality is not liable. (Jones v. City of Phoenix, 239 Pac. 1030.)

Claims of county superintendent of public health in connection with alleged smallpox emergency denied.—(Oklahoma Supreme Court; decided September 15, 1925.) The plaintiff, a county superintendent of public health, brought action against the board of county commissioners to recover for services and expenses in connection with the treatment of smallpox cases, inspections and quarantine, etc. The plaintiff stated that at the time the services were rendered there was a dangerous epidemic of smallpox in the county and that an emergency existed. He contended that section 8680 of the Compiled Statutes, 1921, provided for the work he did and the expenses incurred. The defendant denied the existence of a dangerous epidemic and that an emergency existed, and stated that the amounts appropriated for health work for each of the fiscal years in which the claims were made were exhausted before the claims were made

and that the said claims were, therefore, illegal and void. The plaintiff admitted that the board of county commissioners had taken no action, by resolution or otherwise, to cooperate with him in the alleged emergency. The judgment of the lower court was for the defendant, which judgment was affirmed by the supreme court. Regarding the construction to be placed upon the provisions of the above-mentioned section 8680, the supreme court stated as follows:

It will be observed that, whatever the emergency on account of the dangerous epidemic, the county superintendent of public health and board of county commissioners are required to act together in formulating such "provisions, rules, and regulations," as may be necessary to prevent the spread of such epidemic, and they are given full power to compel submission to their rules and regulations to stamp out or prevent the spread of such epidemic. The evidence in this case does not show any concert of action on the part of the health official and the county commissioners. Whatever rules and regulations were made were don't by the superintendent of health, and the county commissioners passed no resolution and took no action in the matter. Then this section in providing for payment of actual and necessary expenses required that they must be such as are contracted for in discharge of the health official's duties in the emergency. evidence must show a contractual relation between the parties, there must be rules and regulations agreed upon in fixing the duties of the health officer, and there must be a promise to pay for services and expenses incurred. The evidence fails to show any compliance with the statute in these respects. But we can not see anything mandatory in these provisions of the statute even in case of an emergency. It is discretionary with the county commissioners as to whether they take any action or not even if a dangerous epidemic does exist. If they do act, and with the superintendent of health, make rules and regulations to meet the danger, even then they could not contract for expenses beyond the resources of the county and the constitutional limitations of indebtedness. If within such limits the contract would be legal, otherwise illegal and void.

The plaintiff also contended that his claims came under the head of involuntary indebtedness. Regarding this contention the court said:

We can not see any application of this rule or of these cases to the case at bar or the point in question. In the first place, the county superintendent of public health is not a constitutional officer. The board of health is provided for by the constitution (article 5, section 39), but not county superintendents of health. In the second place, the duties of the county health officer are defined by statute, and the fees are fixed and limited by statute according to the population of the respective counties. Section 8680, supra. In the third place, any other compensation is for emergency work in suppressing dangerous epidemics, and this is by contract and not by involuntary responsibility or liability. (Eckles v. Board of County Com'rs of Hughes County, 239 Pac. 567.)

City held liable for deaths caused by drinking polluted water furnished by it.—(Washington Supreme Court; decided October 13 and October 16, 1925.) Two separate actions, each involving practically the same state of facts, were brought against the city of Everett to recover damages for deaths alleged to have been caused by drinking polluted water furnished by the city. The pollution was apparently due to contaminated river water reaching the city water through a by-pass in

a mill company's plant. In both cases the verdicts were against the city on the ground of negligence, and the judgments rendered upon the verdicts were affirmed by the supreme court. (Roscoe v. City of Everett, 239 Pac. 831; Aronson v. City of Everett, 239 Pac. 1011.)

#### DEATH RATES IN A GROUP OF INSURED PERSONS

COMPARISON OF PRINCIPAL CAUSES OF DEATH, OCTODER AND NOVEMBER, 1925, AND NOVEMBER AND YEAR 1924

The accompanying table is taken from the Statistical Bulletin for December, 1925, published by the Metropolitan Life Insurance Co., and presents the mortality experience of the company for November, 1925, as compared with the month of October, 1925, and with November and year 1924. The rates are based on a strength of approximately 16,000,000 industrial policyholders in the United States and Canada.

The November, 1925, death rate for this group of persons (801 per 100,000) is but little higher than the lowest rate ever recorded for this month—796 per 100,000 for November, 1924.

The bulletin contains the following comment:

The record for the month was also satisfactory with respect to most of the important causes of death. Most of the increases recorded, as compared with October, were either small, or were to be expected on account of the seasonal incidence of certain diseases. Pneumonia and influenza are cases in point, and even with these conditions, the November, 1925, rate is low as compared with most other years. The health record for the month was featured, as has been the case with all prior months of 1925, with low rates for all of the principal epidemic diseases of childhood. The excellent record for tuberculosis continues. Every month of the current year has reported a lower death rate than did the corresponding month of 1924. It is now assured, beyond all question, that not only will a new minimal mortality for tuberculosis be recorded in 1925, but that the per cent reduction over the preceding year will be one of the largest year-to-year declines ever recorded.

Heart disease, for some reason, registered quite a rise over November a year ago, and a smaller increase was recorded for Bright's disease. Deaths from diseases associated with pregnancy and childbirth were also more frequent than in October and in November, 1924.

This year's record for typhoid fever, it now appears, will not be so favorable as that for 1924. In 8 of the 11 months that have elapsed, a higher typhoid rate was registered among the industrial policyholders than for the corresponding month of last year. The situation is by no means alarming, as compared with earlier years, but 1925 now appears unlikely to go into public-health history as a year marking improvement for typhoid over its immediate predecessor.

Death rates (annual basis) for principal causes per 100,000 lives exposed, October and November, 1925, and November and year, 1924

[Industrial department, Metropolitan Life Insurance Co.]

	Rate	per 100,000	lives espe	sed t
Cause of death	Nov., 1925	Oct., 1925	Nov., 1924	Year 1924
Total, all causes	801. 8	796. 1	79:\ 4	905. 2
Typhoid fever.  Measles Scarlet lever. Whooping cough Diphtheria Influenza. Tuberculosis (all forms). Tuberculosis of respiratory system. Cancer. Diabetes mellitus. Cerebral hemorrhage. Organic diseases of heart. Pneumonia (all forms). Other respiratory diseases. Diarrhea and enteritis. Bright's disease (chronic nephritis). Puerpenal state. Suicides. Homicules. Homicules. Other external causes (excluding suicides and homicides). Traumatism by automobiles. All other causes.	1.7 2.0 3.8 13.8 78.4 60.2 11.8 119.3 77.0 11.6 62.6 1.5.1 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	6. 9 7. 1 9. 5 6. 6 80. 9 70. 9 64. 6 13. 1 103. 6 62. 3 10. 0 60. 5 12. 3 6. 8 6. 7 63. 3 20. 8	5. 8 1. 7 4. 8 13. 8 13. 8 13. 8 13. 9 12. 0 12. 0 12. 0 10. 0 10. 1 27. 3 50. 4 7, 9 12. 4 7, 9 10. 8	4. 4 7. 2 4. 4 7. 4 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10.

¹ All figures include infants insured under one year of age.

### DEATHS DURING WEEK ENDED JANUARY 16, 1926

Summary of information received by telegraph from industrial insurance companies for week ended January 16, 1926, and corresponding week of 1925. (From the Weekly Health Index, January 19, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week ended Jan. 16, 1926	Corresponding week, 1925
Policies in force		58, 396, 301
Number of death claims		12, 125
Death claims per 1,000 policies in force, annual rate.	11. 2	10. 8

Deaths from all causes in certain large cities of the United States during the week ended January 16, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Icalth Index, January 19, 1926, issued by the Bureau of the Census, Department of Commerce)

		ided Jan. 1926	Annual death		under 1 ear	Infant mortality
City	Total deaths	Death rate 1	1,000 cor- 1esp, nd- 1n ₅ week 1925	Week ended Jan. 16, 1926	C'orne- sponding week, 1925	rate week ended Jan. 16, 1926 ²
Total (68 cities)	8, 205	14. 9	14 2	855	981	3 69
Akion	48			7	4	74
Albany 4	49	21.7	15.0	2	1	42
Atlanta	64			1	19	
White	32			0		
Colored Baltimore 4	32 309	(5)	18.0	1 25		
White	239	20.2	10.0	21	34	73 75
Colored	70	(5)		4		65
Birmingham	77	19.5	16. 7	ĝ	7	00
White	35			2	l	
Colored	42	( ³ ) 16. 8		7		
Boston	251	16.8	16 9	20	47	56
Bridgeport	29			8	8	136
BuffaloCambridge	155 30	15 0 13.1	12. 6 14. 4	19 5	15 2	79 83 85 44
Camden	31	12.6	13. 4	5	3	85
Canton	23	11.3	11.3	5 2	4	44
Chicago 4	781	13. 6	11.8	76	106	67
Cincinnati	148	18 9	17. 6	15	10	93
Cleveland.	213	11.9	10 2	31	27	80
Columbus	G4	11.9	13.6	4	10	37
Dallas White	68 53	18.3	16.4	10 7	11	
Colored	15	75\		3		
Denver	108	(5) 20 0	13, 6	10	8	
Des Moines	34	11.9	8 7	2	3	33
Detroit	333	13. 9	10.6	62	61	100
Duluth	20	9.4	10.4	4	5	94
El Paso	32 40	15. 9	25 8	4 3 10	5	
ErieFall River ⁴	46	18.6	14.6	10	2 3 3 8	57 145
Flint	22	8.8	6.4	5	3	83
Fort Worth	26	8.9	16. 4	7	Š	
White	22			4		
Colored	4	( ⁵ )		3		
Grand Rapids	33	11.2	12.2	1	5 7	14
Houston White-	60	19.0	19.0	10 7	1	
Colored	19	(5) 13. 1				
Indianapolis	90	13.1	13.4	3 9	7	68
White	76			8		
Colored	14	(5) 18. 9		1		
Jacksonville, Fla	38	18.9	17. 4	3	2	66
White	16	(6)		1		
Colored Jersey City	22 81	( ⁵ ) 13. 4	14. 2	2 7 3 2 1	11	50
Kansas City, Kans	32	14.4	18.0	ġ	1 7	52 42
White	28	1		2		42
Colored	4	( ⁵ ) 15. 3				131
Kansas City, Mo	108	15.3	12.6	14	9	
Los Angeles	217 106	18.3	15.0	14 6	21	39 52 40
Louisville	100	19. 3	10.0	4	1 0	93
Colored	73 33	(5)		2		1 125
Lowell	33	( ⁵ ) 15. 6	16. 1	2 5 5	3	93
Lynn	31	15. 7	0.1	5	0	126

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1924. Cities left blank are not in the registration area for births.

^{a Data for 63 cities for which deaths are shown by color, the colored population in 1920 constituted the following percentage of the total population: Atlanta 31, Baltimore 15, Birmingham 33, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.} 

Deaths from all causes in certain large cities of the United States during the week ended January 16, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925—Continued

	Week en 16, 1		Annual death rate per	Deaths yo	under 1	Infant mortality
City	Total deaths	Death rate	1,000 cor- respond- ing week 1925	Week ended Jan. 16, 1926	Corresponding week, 1925	rate week ended Jan. 16, 1926
Temphis	77	23. 0	17.0	10	6	
White	43			5 5		
Colored	34 99	(5) 10 3	70.1	19	170	88
Iilwaukee	122	15.0	13 2	22	19 15	122
Ainneapolis Vashville 4	47	18.0	15.7	2	1	17-
White	23			2		٠ لار
WhiteColored	24	(5) 10 9		ō		
New Bedford	25	10 9	87	1	9	1
New Haven	40 181	11.7 22.8	14.3 22.8	3 22	23	64
Vew Orleans	118	ه شد	0	10	240	
Colored	63	(5)		12		
New York	1,556	13.8	14.3	146	172 17	59
New York Bronx Borough	192	11.5	9 1	17		56
Brooklyn Borough	500	11 8	12 4	58	63	50
Manhattan Borough	676 136	18. 1 9. 9	19.7 9.8	58 11	72	64 50
Queens Borough Richmond Borough	52	19.6	23 4	2	6	35
Newark, N. J.	122	14.1	13 8	9	17	43
Vorfolk	34			3	4	56
White	13			1		30
Colored	21	(5)		$\frac{2}{1}$		99
Oklahoma City Omaha	19 57	14.0	10.3	4	3	42
Paterson	46	16.0	10.3	4	5	70
Philadelphia	616	16 2	16.0	66	67	88
Pittsburgh Portland, Oreg	194	16.0	18.4	21	32	70
Portland, Oreg	75	13.8	11.8	4	6	41
Providence	92 61	17. 9 17. 1	11. 9 20. 1	12 8	7 10	100 101
Richmond	35	17.1	20. 1	2	10	39
WhiteColored	26	(5)		6		210
Rochester	88	(5) 14 5	12.3	7	7	56
St. Louis	242	15.4	16.3	13	23	
St. Paul	60	12 7	12.3	7	7	62
Salt Lake City 4	27 60	10.8 15.8	11.9 22.1	1 6	12	14
San Diego.	34	16.7	18.2	1	13	21
San Francisco	185	17.3	16.8	10	12	60
Schenectady	28 73	15.7	14.0	1	2	29
Snattle	73			4	1	37
Somerville	34	17.9	14.2	Õ	4	0
SpokaneSpringfield, Mass	20 38	13. 9 13. 9	8, 6 11, 7	5 5	0 5	117 72
Syracuse	45	12.9	13.8	ű	3	95
Pacoina	26	13.0	15.0	3	2 2 8	25 70
Poledo	54	9.8	11.2	7		68
Prenton	47	18.6	19. 1	6	4	100
Utica.	37	19.0	13.3	3	17	.00
Washington, D. C. White	194 129	20.3	13.9	18 9	17	WWW.
Lintaraa	65	(5)		9		
Waterbury	32			4	4	80
Waterbury Wilmington, Del Worcester	29	12.4	19. 2	4	9	94
Worcester.	59	16 1	13.1	2 5		23
Yonkers	15	6.9	11.9		8 5 5	112
Youngstown	32	10.4	14.7	6	1 5	76

⁴ Deaths for week ended Friday, Jan. 15, 1926.
⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentage of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nasawille, 30, New Orleans, 28, Norfolk 38, Richmond 32, and Washington, D. C. 25.

# PREVALENCE OF DISEASE

No health department. State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

## UNITED STATES

#### CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

#### Reports for Week Ended January 23, 1926

	ases		ases
Chicken pox		Pellagra	3
Diphtheria		Scarlet fever	8
Influenza		Smallpox.	3
Malaria		Trachoma	1
Measles		Tuberculosis	6
Mumps		Typhoid fever	5
Ophthalmia neonatorum	. 1	Whooping cough	14
Pellagra	. 5	6.************************************	
Pneumonia	205	CALIFORNIA	
Scarlet fever	25	Cerebrospinal meningitis:	
Smallpox	47	Humbolt County	. 1
Trachoma	. 2	Los Angeles	
Tuberculosis	. 38	Oakland	. 1
Typhoid fever	. 7	Richmond	. 1
Whooping cough		San Francisco	. 3
		Chicken pox	254
ARIZONA		Diphtheria	
Cerebrospinal meningitis	. 1	Influenza	
Chicken pox		Mensles	
Diphtheria		Mumps	
Measles.		Poliomyelltis—Pasadena	1
Mumps		Scarlet fever	
Pneumonia		Smallpox:	
Rabies (in man)		Los Angeles	44
Scarlet fever		Los Angeles County	
Tuberculosis		Oakland	
Typhoid fever		Scattering	16
Whooping cough		Typhoid fever	
	-	Whooping cough	
ARKANSAS			
Cerebrospinal meningitis.		COLORADO	
Chicken pox		Cerebrospinal meningitis	
Diphtheria		Chicken pox.	
Hookworm disease	-	Diphtheria	22
Influenza		Influenza	
Malaria		Measles	
Measles		Mumps	
Mumps		Pneumonia	
WHIII OS	. 0		, ,

colorado—continued Ca	ses	OHACI	Cases
Scabies	1	Chicken pox	. 3
Scarlet fever	21	Diphtheria	
Trachoma	1	Pneumonia	
Tuberculosis	17	Scarlet fever	_ 85
Typhoid fever	3	Smallpox—Emmett	_ 25
Whooping cough	34	ILLINOIS	
-			
Chicken pox	148	Cerebrospinal meningitis—Livingston County	
Conjunctivitis (infectious)	25	Diphtheria	
Diphtheria	39	Influenza	
German measles	12	Lethargic encephalitis—Cook County	
Influenza	9	Measles Pneumonia	
Lethargic encephalitis	2	Scarlet fever	
Measles.	775	Smallpox:	- 020
Mumps		Kane County	_ 18
Pneumonia (broncho)		Scattering	
Pneumonia (lobar)		Tuberculosis	
Scarlet fever		Typhoid fever:	
Septic sore throat		Pike County	. 15
Tuberculosis (all forms)		Scattering	
Typhoid fever	3 92	Whooping cough	_ 200
Whooping cough	82	INDIANA	
DELAWARE		Chicken pox	_ 91
Chicken pox		Diphtheria	
Dipht heria		Influenza	
Influenza		Measles	. 13
Measles.		Mumps	
MumpsPneumonia		Ophthalmia neonatorum	
Scarlet fever		Pneumonta	
Tuberculosis		Scarlet fever	
	_	Smallpox	
FLORIDA	20	Tuberculosis Typhoid fever	
Chicken pox Diphtheria		Whooping cough	
Influenza			
Malaria		Chicken pox.	_ 63
Measles.		Diphtheria	
Mumps.	44	German measles	
Paratyphoid fever	1	Mensles	
Pneumonia		Mumps	
Scarlet fever		Pneumonia	. {
Smallpox		Searlet fever	. 79
Tuberculosis		Smallpox	
Typhoid fever		Tuberculosis.	
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GEORGIA		KANHAS	
Cerebrospinal meningitis	3	Cerebrospinal meningitis:	
Chicken pox		Arkansas City	:
Conjunctivitis	1	Densmore	
Diphtheria		Fort Scott	. :
Hookworm disease		Chicken pox	_ 17
Influenza		Diphtheria	. 3:
Malaria		German measles	
Measles Mumps		Influenza	1
Pellagra		Measles	
Pneumonia.		Mumps Pneumonia	
Scarlet fever		Scarlot fever	to
Septic sore throat		Smallpox	
· Smallpox	15	Tetanus	
Tetanus	. 1	Trachoma	
Tuberculosis	25	Tuberculosis	
Typhoid fever	11	Typhoid fever	
at MACHINE DORRET	. 4	Whooping cough	10

LOUISIANA C	ases	MICHIGAN—continued Ca	ses
Diphtheria	27	Tuberculosis	56
Influenza	51	Typhoid fever	6
Leprosy	1	Whooping cough	257
Pneumonia	62	MINNESOTA	
Poliomyelitis		Chicken pox	161
Scarlet fever		Diphtheria	58
Smallpox		Influenza	3
Tuberculosis		Measles	40
Typhoid fever		Pneumonia	7
Whooping cough	. 4	Poliomyelitis	1
MAINE		Scarlet fever	357
Chicken pox	<b>2</b> 8	Smallpox	5
Diphtheria	. 7	Tuberculosis	56
Influenza	. 3	Typhoid fever	2
Moasles	. 6	Whooping cough	49
Mumps		MISSISSIPPI	
Pneumonia		Cerebrospinal meningitis	1
Scarlet fever		Diphtheria	12
Septic sore throat		Scarlet fever	12
Tuberculous meningitis		Smallpox	19
Whooping cough	. 60	Typhoid fever	2
MARYLAND 1		MISSOURI	
Diphtheria	. 41	(Exclusive of Kansas City)	
German measles		Cerebiospinal meningitis	1
Influenza	454	Chicken pov.	56
Measles	, 337	Diphtheria	67
Mumps	. 131	Influenza	6
Ophthalmia neonatorum	. 1	Malaria	13
Pneumonia (broncho)	. 111	Measles	42
Pneumonia (lobar)		Mumps	9
Searlet fover		Pneumonia	8
Septic sore throat		Scarlet fever	172
Tuberculosis		Smallpox	4
Typhoid fever		Tetanus	
Whooping cough	. 04	Trachoma	6
Massachusetts		Tuberculosis	
Cerebrospinal meningitis	. 3	Typhoid fever	
Chicken pox	274		10
Conjunctivitis (suppurative)	_ 18	NEBRASKA	
Diphtheria		Cerebrospinal meningitis	
German measles		Chicken pox	
Hookworm disease		Diphtheria	
Influenza		German measles	
Lethargic encephalitis		Influenza	
Measles		Measles	
Mumps		Mumps Pneumonia	
Ophthalmia neonatorum  Pneumonia (lobar)		Scarlet fever	
Poliomyelitis.		Smallpox	
Scarlet fever		Tuberculosis	
Septic sore throat.		Whooping cough	
Trachoma		NEW JERSEY	
Tuberculosis (pulmonary)			
Tuberculosis (other forms)		Cerebrospinal meningitis	1 394
Typhoid fever	. 8	Chicken pox Diphtheria	
Whooping cough	397	Influenza	
MICHIGAN		Mcasles1	
Diphtheria	115	Pneumonia	
Measles		Pohomyelitis	
Pneumonia		Scarlet fever	233
Scarlet fever		Typhoid fever	9
Smallpox		Whooping cough	` 77
Week ended Friday.			
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NEW MEXICO Ca	ses	oregon-continued (	Cases
Chicken pox	50	Pneumonia	2 12
Diphtheria	2	Scarlet fever	. 31
German measles	1	Septic sore threat	. 1
Influenza	2	Smallpox:	
Malaria	1	Bend.	. 18
Mumps	16	Linn County	
Pneumonia.	12	Scattering	
Rabies (in animals)	1	Tuberculosis.	
Scarlet fever	15	Typhoid fever	
	1	Whooping cough	
Smallpox Tuberculosis	21		_ 01
	3	PENNSYLVANIA	
Typhold fever	21	Anthrax—Philadelphia	1
whooping cought	21	Cerebrospinal meningitis:	•
NEW YORK		Homer City	1
		Philadelphia	î
(Exclusive of New York City)		Chicken pox.	
Cerebrospinal meningitis	3	Diphtheria	301
Diphtheria	82	German measles	1,25
Influenza		Impetigo contagiosa	18
Lethargic encephalitis	2	Measles	
Measles			173
Pneumonia		Mumps Philadelphia	3
Poliomyelitis		Ophthalmia neonatorum—Philadelphia	131
Scarlet fever		PneumoniaPoliomyelitis—Philadelphia	101
Typhoid fever			15
Whooping cough		ScapiesScarlet fever	709
Whooping cough	100	Tetanus—Philadelphia	100
NORTH CAROLINA		Trachoma—	•
		Philadelphia	2
Chicken pox		• -	1
Diphtheria		Pittsburgh	
German measles		TuberculosisTyphoid fever	80
			26
Measles.		VIII I	
Scarlet fever	71	Whooping cough	411
Scarlet feverSeptic sore throat	71 3	Whooping cough	
Scarlet feverSeptic sore throatSmallpox	71 3 27	Whooping cough	411
Scarlet feverSeptic sore throat	71 3 27	REODE ISLAND  Cerebrospinal meningitis—Providence	411
Scarlet feverSeptic sore throatSmallpox	71 3 27	RHODE ISLAND  Cerebrospinal meningitis—Providence Chicken pox	411 1 3
Scarlet fever	71 3 27	RHODE ISLAND  Cerebrospinal meningitis—Providence Chicken pox.  Diphtheria.	411 1 3 9
Scarlet fever	71 3 27	RHODE ISLAND  Cerebrospinal meningitis—Providence——— Chicken pox  Diphtheria  German measles	411 1 3 9 4
Scarlet fever	71 3 27	Whooping cough  RHODE ISLAND  Cerebrospinal meningitis—Providence  Chicken pox  Diphtheria.  German measles.  Measles.	411 1 3 9 4 488
Scarlet fever	71 3 27	RHODE ISLAND  Cerebrospinal meningitis—Providence Ohicken pox Diphtheria	411 1 3 9 4 488 4
Scarlet fever	71 3 27 200	RHODE ISLAND  Cerebrospinal meningitis—Providence Chicken pox Diphtheria German mensles. Mensles. Mumps. Ophthalmia neonatorum.	411 1 3 9 4 488 4
Scarlet fever	71 3 27 200	RHODE ISLAND  Cerebrospinal meningitis—Providence Chicken pox Diphtheria German measles Measles Mumps Ophthalmia neonatorum Scarlot fever	411 3 9 4 488 4 1
Scarlet fever Septic sore throat Smallpox Whooping cough OKLAHOMA (Exclusive of Tulsa and Oklahoma City) Cerebrospinal meningitis: Muskogee Tillman Chicken pox	71 3 27 200	Whooping cough  RHODE ISLAND  Cerebrospinal meningitis—Providence  Ohicken pox  Diphtheria.  German measles.  Measles.  Mumps.  Ophthalmia neonatorum.  Scarlet fever  Tuborculosis.	411 1 3 9 4 488 4 1 11 5
Scarlet fever Septic sore throat Smallpox Whooping cough OKLAHOMA (Exclusive of Tulsa and Oklahoma City) Cerebrospinal meningitis: Muskogee Tillman Chicken pox Diphtheria	71 3 27 200 1 1 27 30	RHODE ISLAND  Cerebrospinal meningitis—Providence	411 3 9 4 488 4 1 11 5
Scarlet fever Septic sore throat Smallpox Whooping cough  OKLAHOMA  (Exclusive of Tulsa and Oklahoma City) Cerebrospinal meningitis: Muskogee Tillman Chicken pox Diphtheria Influenza	71 3 27 200 1 1 27 30	Whooping cough  RHODE ISLAND  Cerebrospinal meningitis—Providence  Ohicken pox  Diphtheria.  German measles.  Measles.  Mumps.  Ophthalmia neonatorum.  Scarlet fever  Tuborculosis.	411 1 3 9 4 488 4 1 11 5
Scarlet fever	71 3 27 200 1 1 27 30 421	RHODE ISLAND  Cerebrospinal meningitis—Providence	411 3 9 4 488 4 1 11 5
Scarlet fever Septic sore throat Smallpox Whooping cough  OKLAHOMA  (Exclusive of Tulsa and Oklahoma City) Cerebrospinal meningitis: Muskogee Tillman Chicken pox Diphtheria Influenza	71 3 27 200 1 1 27 30 421 9	Whooping cough  RHODE ISLAND  Cerebrospinal meningitis—Providence  Chicken pox  Diphtheria.  German measles.  Measles.  Mumps.  Ophthalmia neonatorum.  Scarlet fever.  Tuberculosis.  Typhoid fever.  Whooping cough.	411 3 9 4 488 4 1 11 5
Scarlet fever Septic sore throat Smallpox Whooping cough OKLAHOMA (Exclusive of Tulsa and Oklahoma City) Cerebrospinal meningitis: Muskogee Tillman Chicken pox Diphtheria Influenza Malaria Measles Mumps.	71 3 27 200 200 1 1 1 27 30 421 9 17 12	RHODE ISLAND  Cerebrospinal meningitis—Providence	411 3 9 4 488 4 11 5 17
Scarlet fever Septic sore throat Smallpox Whooping cough OKLAHOMA (Exclusive of Tulsa and Oklahoma City) Cerebrospinal meningitis: Muskogee Tillman Chicken pox Diphtheria Influenza Malaria Mensles	71 3 27 200 200 1 1 1 27 30 421 9 17 12	RHODE ISLAND  Cerebrospinal meningitis—Providence	411 1 3 9 4 488 4 1 11 5 1 7 7
Scarlet fever Septic sore throat Smallpox Whooping cough  OKLAHOMA  (Exclusive of Tulsa and Oklahoma City) Cerebrospinal meningitis: Muskogee Tillman Chicken pox Diphtheria Influenza Malaria Mensles Mumps. Pneumonia Poliomyelitis:	71 3 27 200 1 1 27 30 421 9 17 12 245	RHODE ISLAND  Cerebrospinal meningitis—Providence Ohicken pox Diphtheria. German measles. Measles. Mumps. Ophthalmia neonatorum. Scarlet fever Tuberculosis. Typhoid fover Whooping cough SOUTH CAROLINA  Dengue Diphtheria Influenza	411 1 3 9 4 488 4 1 11 5 1 7 7 3 20 1,450
Scarlet fever. Septic sore throat. Smallpox Whooping cough OKLAHOMA (Exclusive of Tulsa and Oklahoma City) Cerebrospinal meningitis: Muskogee Tillman Chicken pox Diphtheria. Influenza Malaria Measles Mumps. Pneumonia. Poliomyelitis: Comanche.	71 3 27 200 200 1 1 1 27 30 421 9 17 12	Whooping cough  RHODE ISLAND  Cerebrospinal meningitis—Providence Chicken pox. Diphtheria. German measles. Measles. Mumps. Ophthalmia neonatorum. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough. SOUTH CAROLINA  Dengue. Diphtheria. Influenza. Malaria.	411 1 3 9 4 488 4 1 111 5 1 7 7 3 20 1, 450 68
Scarlet fever. Septic sore throat. Smallpox Whooping cough OKLAHOMA (Exclusive of Tulsa and Oklahoma City) Cerebrospinal meningitis: Muskogee Tillman Chicken pox Diphtheria Influenza. Malaria. Measles. Mumps. Pneumonia. Poliomyelitis: Comanche. Fawnee	71 3 27 200 1 1 1 27 30 421 9 17 12 245	RHODE ISLAND  Cerebrospinal meningitis—Providence	411 1 3 9 4 488 4 1 1 1 5 5 1 7 7 3 20 1, 450 68 10
Scarlet fever. Septic sore throat Smallpox Whooping cough  OKLAHOMA  (Exclusive of Tulsa and Oklahoma City)  Cerebrospinal meningitis: Muskogee Tillman Chicken pox Diphtheria Influenza Malaria Measles Mumps Pneumonia Poliomyelitis: Comanche Pawnee Scarlet fever	71 3 27 200 1 1 1 27 30 421 9 17 12 245	RHODE ISLAND  Cerebrospinal meningitis—Providence	411 1 3 3 9 4 4 488 4 1 1 1 1 5 1 7 7 3 3 20 0 68 10 8
Scarlet fever. Septic sore throat. Smallpox Whooping cough OKLAHOMA (Exclusive of Tulsa and Oklahoma City) Cerebrospinal meningitis: Muskogee Tillman Chicken pox Diphtheria Influenza. Malaria. Measles. Mumps. Pneumonia. Poliomyelitis: Comanche. Fawnee	71 3 27 200 1 1 1 27 30 421 9 17 12 245 1 1	RHODE ISLAND  Cerebrospinal meningitis—Providence Ohicken pox Diphtheria. German measles. Measles. Mumps. Ophthalmia neonatorum. Scarlet fever Tuberculosis. Typhoid fever. Whooping cough SOUTH CAROLINA  Dengue Diphtheria Influenza Malarla Measles Scarlet fever Smallpox	411 1 3 9 4 4 488 4 1 11 5 1 7 7 3 20 1, 450 68 10 8 13
Scarlet fever. Septic sore throat Smallpox. Whooping cough  OKLAHOMA  (Exclusive of Tulsa and Oklahoma City) Cerebrospinal meningitis:  Muskogee Tillman Chicken pox Diphtheria. Influenza Malaria. Measles. Mumps. Pneumonia. Poliomyelitis: Comanche. Pawnee Scarlet fever Smallpox Typhoid fever	71 3 27 200 1 1 1 27 30 421 9 17 12 245 1 1 1 29 49 9	RHODE ISLAND  Cerebrospinal meningitis—Providence Chicken pox. Diphtheria. German measles. Measles. Mumps. Ophthalmia neonatorum. Scarlet fever. Tuberculosis. Typhoid fover. Whooping cough. SOUTH CAROLINA  Dengue. Diphtheria. Influenza. Malaria. Measles. Scarlet fever. Smallpox. Tuberculosis.	411 1 3 3 9 4 4 488 4 1 111 5 5 1 7 7 3 20 11, 450 68 10 8 8 13 34 450
Scarlet fever. Septic sore throat. Smallpox Whooping cough  OKLAHOMA  (Exclusive of Tulsa and Oklahoma City)  Cerebrospinal meningitis: Muskogee Tillman Chicken pox Diphtheria. Influenza. Malaria. Measles. Mumps. Pneumonia. Poliomyelitis: Comanche. Fawnee Scarlet fever. Smallpox. Typhoid fever. Whooping cough	71 3 27 200 1 1 1 27 30 421 9 17 12 245 1 1 29 49	RHODE ISLAND  Cerebrospinal meningitis—Providence Chicken pox Diphtheria German measles Measles Mumps Ophthalmia neonatorum Scarlet fever Tuberculosis Typhoid fover Whooping cough SOUTH CAROLINA  Dengue Diphtheria Influenza Malaria Measles Scarlet fever Smallpox Tuberculosis Typhoid fever Tuberculosis Typhoid fever Tuberculosis Typhoid fever	411 1 3 9 4 488 4 1 11 7 7 3 20 1, 450 68 10 8 13 34 12
Scarlet fever. Septic sore throat Smallpox. Whooping cough  OKLAHOMA  (Exclusive of Tulsa and Oklahoma City) Cerebrospinal meningitis:  Muskogee Tillman Chicken pox Diphtheria. Influenza Malaria. Measles. Mumps. Pneumonia. Poliomyelitis: Comanche. Pawnee Scarlet fever Smallpox Typhoid fever	71 3 27 200 1 1 1 27 30 421 9 17 12 245 1 1 1 29 49 9	RHODE ISLAND  Cerebrospinal meningitis—Providence Chicken pox. Diphtheria. German measles. Measles. Mumps. Ophthalmia neonatorum. Scarlet fever. Tuberculosis. Typhoid fover. Whooping cough. SOUTH CAROLINA  Dengue. Diphtheria. Influenza. Malaria. Measles. Scarlet fever. Smallpox. Tuberculosis.	411 1 3 3 9 4 4 488 4 1 111 5 5 1 7 7 3 20 11, 450 68 10 8 8 13 34 450
Scarlet fever. Septic sore throat. Smallpox Whooping cough  OKLAHOMA  (Exclusive of Tulsa and Oklahoma City)  Cerebrospinal meningitis: Muskogee Tillman Chicken pox Diphtheria. Influenza. Malaria. Mensles. Mumps. Pneumonia. Poliomyelitis: Comanche. Pawnee Scarlet fever. Smallpox. Typhoid fever. Whooping cough	71 3 27 200 200 11 1 1 27 30 421 9 17 12 245 1 1 29 49 9 25	RHODE ISLAND  Cerebrospinal meningitis—Providence Chicken pox Diphtheria German measles Measles Mumps Ophthalmia neonatorum Scarlet fever Tuberculosis Typhoid fover Whooping cough SOUTH CAROLINA  Dengue Diphtheria Influenza Malaria Measles Scarlet fever Smallpox Tuberculosis Typhoid fever Tuberculosis Typhoid fever Tuberculosis Typhoid fever	411 1 3 9 4 488 4 1 11 7 7 3 20 1, 450 68 10 8 13 34 12
Scarlet fever. Septic sore throat. Smallpox Whooping cough  OKLAHOMA  (Exclusive of Tulsa and Oklahoma City)  Cerebrospinal meningitis: Muskogee Tillman Chicken pox Diphtheria. Influenza. Malaria. Measles. Mumps. Pneumonia. Poliomyelitis: Comanche. Fawnee Scarlet fever. Smallpox. Typhoid fever. Whooping cough	71 3 27 200 1 1 1 27 30 421 9 17 12 245 1 1 1 29 49 9 25	RHODE ISLAND  Cerebrospinal meningitis—Providence Chicken pox Diphtheria German measles Measles Mumps Ophthalmia neonatorum Scarlet fever Tuberculosis Typhoid fever Whooping cough SOUTH CAROLINA  Dengue Diphtheria Influenza Malaria Measles Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	411 1 3 9 4 488 4 1 1 1 7 7 3 20 1, 450 68 10 8 11 25 10 11 11 11 11 11 11 11 11 11
Scarlet fever. Septic sore throat. Smallpox Whooping cough  OKLAHOMA  (Exclusive of Tulsa and Oklahoma City) Cerebrospinal meningitis:  Muskogee Tillman Chicken pox Diphtheria. Influenza Malaria. Mensles. Mumps. Pneumonia. Proliomyelitis: Comanche. Fawnee Scarlet fever Smallpox. Typhoid fever Whooping cough  OREGON Cerebrospinal meningitis.	71 3 27 200 1 1 1 27 30 421 9 17 12 245 1 1 1 29 9 25	RHODE ISLAND  Cerebrospinal meningitis—Providence Chicken pox Diphtheria German measles Measles Mumps Ophthalmia neonatorum Scarlet fever Tuberculosis Typhoid fover Whooping cough SOUTH CAROLINA  Dengue Diphtheria Influenza Malarla Measles Scarlet fever Scarlet fever Thereculosis Typhoid fever Walarla Measles Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough SOUTH DAKOTA  Chicken pox Diphtheria	411  1 3 9 4 4 488 4 1 111 5 1 7 7 3 20 1, 450 68 10 8 87 87 10 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Scarlet fever. Septic sore throat. Smallpox Whooping cough  OKLAHOMA  (Exclusive of Tulsa and Oklahoma City)  Cerebrospinal meningitis:  Muskogee Tillman Chicken pox Diphtheria. Influenza Malaria. Mensles. Mumps Preumonia. Poliomyelitis: Comanche. Fawnee Scarlet fever Smallpox Typhoid fever Whooping cough  OREGON  Cerebrospinal meningitis Chieken pox	71 3 27 200 1 1 1 27 30 421 9 17 12 245 1 1 29 49 9 25	RHODE ISLAND  Cerebrospinal meningitis—Providence Chicken pox Diphtheria German measles Measles Mumps Ophthalmia neonatorum Scarlet fever Tuberculosis Typhoid fover Whooping cough SOUTH CAROLINA  Dengue Diphtheria Influenza Malarla Measles Scarlet fever Scarlet fever Thereculosis Typhoid fever Walarla Measles Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough SOUTH DAKOTA  Chicken pox Diphtheria	411  1 3 9 4 4 488 4 1 111 5 1 7 7 3 20 1, 450 68 10 8 87 87 10 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Scarlet fever. Septic sore throat. Smallpox Whooping cough  OKLAHOMA  (Exclusive of Tulsa and Oklahoma City) Cerebrospinal meningitis:  Muskogee Tillman Chicken pox Diphtheria. Influenza Malaria. Mensles. Mumps. Pneumonia. Poliomyelitis: Comanche. Fawnee Scarlet fever. Smallpox. Typhoid fever. Whooping cough  OREGON  Cerebrospinal meningitis. Chicken pox Diphtheria. Influenza Measles.	71 3 27 200 1 1 1 27 30 421 9 17 12 245 1 1 29 49 9 25 22 22 37 62 13	RHODE ISLAND  Cerebrospinal meningitis—Providence Chicken pox Diphtheria German measles Measles Mumps Ophthalmia neonatorum Scarlet fever Tuberculosis Typhoid fover Whooping cough SOUTH CAROLINA  Dengue Diphtheria Influenza Malaria Measles Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  SOUTH CAROLINA  Chicken pox Diphtheria Typhoid fever Whooping cough  SOUTH DAKOTA  Chicken pox Diphtheria Measles Scarlet Measles Measles Scarlet fever Mhooping cough  SOUTH DAKOTA  Chicken pox Diphtheria Measles Measles Measles Measles Measles Measles Measles Measles Measles Measles Measles Measles Measles Measles Measles Measles Measles Measles Measles Measles Measles Measles Measles Measles Measles Measles Measles	411  1 1 3 9 9 4 4 1 1 1 1 5 1 7 7 3 20 1 4 5 0 1 1 3 3 4 1 2 1 5 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Scarlet fever. Septic sore throat. Smallpox Whooping cough OKLAHOMA  (Exclusive of Tulsa and Oklahoma City) Cerebrospinal meningitis: Muskogee Tillman Chicken pox. Diphtheria. Influenza. Malaria. Measles. Mumps. Pneumonia. Poliomyelitis: Comanche. Pawnee Scarlet fever. Smallpox Typhoid fever. Whooping cough OREGON Cerebrospinal meningitis. Chicken pox. Diphtheria.	71 3 27 200 1 1 1 27 30 421 9 17 12 245 1 1 29 49 9 25 22 22 37 62 13	RHODE ISLAND  Cerebrospinal meningitis—Providence Chicken pox. Diphtheria. German measles. Measles. Mumps. Ophthalmia neonatorum. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough. SOUTH CAROLINA  Dengue. Diphtheria. Influenza. Malaria. Mcasles. Scarlet fever. Smallpox. Tuberculosis Typhoid fever. South CAROLINA  Dengue. Diphtheria Influenza. Maloria. Mcasles. Scarlet fever. Smallpox. Tuberculosis Typhoid fever. Whooping cough. SOUTH DAKOTA  Chicken pox. Diphtheria. Measles.	411  1 1 3 9 9 4 4 1 1 1 1 5 1 7 7 3 20 1 4 5 0 1 1 3 3 4 1 2 1 5 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

	ses [		ases
Poliomyelitis	1	Diphtheria	16
Scarlet fever	123	German measles	23
Smallpox	5	Influenza	1
Tuberculosis	1	Measles	12
Typhoid fever	1	Mumps	111
		Scarlet fever	
TENNESSEE	- 1	Smallpox—	
Chicken pov.	52	Tacoma	32
Diphtheria	9	Scattering	
Influenza	94	Tuberculosis	
Malaria	3	Typhoid fever	1
Measles	178	Whoming cough	53
Mumps	8	Whooping cough	99
Pellagra	2	WEST VIRGINIA	
Pneumonia	100	WEST VIRGINIA	
Scarlet fever		Diphtheria	10
Smallpox	20	Scarlet fever	
Trachoma	1	Smallpox—Bluefield	
	39		
Tuberculosis	4	Typhoid fever	2
Typhoid fever		WISCONSIN	
Whooping cough	19	Milwaukee:	
TEXAS			104
Chicken pox	25	Chicken pox	
Diphtheria	38	Diphtheria	
Influenza	47	German measles	
Measles	4	Influenza	
	5	Lethargic encophalitis.	
Mumps	- 1	Measles	
Pneumonia	19	Mumps	
Scarlet fever		Pneumonia	. 15
Smallpox	59	Scarlet fever	. 24
		Modification of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th	
Tuberculosis.	27	Tuberculosis	
Tuberculosis			13
Whooping cough		Tuberculosis.	13
Whooping cough UTAH	36	Tuberculosis. Whooping cough Scattering:	13 88
Whooping coughUTAM Chicken pox	36 84	Tuberculosis Whooping cough Scattering: Chicken pox.	13 88 177
Whooping cough  UTAH  Chicken pox  Diphtheria	36 84 12	Tuberculosis. Whooping cough Scattering: Chicken pox. Diphtheria.	. 13 . 88 . 177 . 35
UTAH Chicken pox	36 84 12 116	Tuberculosis. Whooping cough. Scattering: Chicken pox. Diphtheria. German measles.	13 88 177 36 5
UTAH  Chicken pox. Diphtheria Influenza Jaundice (infectious)	36 84 12 116 1	Tuberculosis Whooping cough Scattering: Chicken pox Diphtheria German measles Influenza	13 88 177 36 5 29
Whooping cough  UTAH  Chicken pox.  Diphtheria  Influenza  Jaundice (infectious)  Measles	36 84 12 116 1	Tuberculosis Whooping cough Scattering: Chicken pox Diphtheria German measles Influenza Measles	13 88 177 36 5 29
Whooping cough  UTAH  Chicken pox Diphtheria Influenza Jaundice (infectious) Measles Mumps	36 84 12 116 1 7 23	Tuberculosis Whooping cough Scattering: Chicken pox Diphtheria German measles Influenza Measles Mumps	13 88 177 36 5 29 153
Whooping cough  UTAH  Chicken pox Diphtheria Influenza Jaundice (infectious) Measles Mumps Pneumonia	36 84 12 116 1 7 23 24	Tuberculosis Whooping cough Scattering: Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum	13 88 177 36 5 29 153 133
Whooping cough  UTAH  Chicken pox  Diphtheria  Influenza  Jaundice (infectious)  Measles  Mumps  Pneumonia  Scarlet fever	36 84 12 116 1 7 23 24 16	Tuberculosis Whooping cough Scattering: Chicken pox. Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia	13 88 177 36 5 29 153 133 1
Whooping cough  UTAH  Chicken pox.  Diphtheria  Influenza  Jaundice (infectious)  Measles  Mumps  Pneumonia  Scarlet fever  Smallpox—Provo	36 84 12 116 1 7 23 24 16 8	Tuberculosis Whooping cough Scattering: Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Scarlet fever	13 88 177 36 5 29 153 133 1 23
Whooping cough  UTAH  Chicken pox  Diphtheria  Influenza  Jaundice (infectious)  Measles  Mumps  Pneumonia  Scarlet fever	36 84 12 116 1 7 23 24 16 8	Tuberculosis Whooping cough Scattering: Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Scarlet fever	13 88 177 36 5 29 153 133 1 123 171
Whooping cough  UTAH  Chicken pox.  Diphtheria  Influenza  Jaundice (infectious)  Measles  Mumps  Pneumonia  Scarlet fever  Smallpox—Provo	36 84 12 116 1 7 23 24 16 8	Tuberculosis Whooping cough Scattering: Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Scarlet fever Smallpox Tuberculosis	13 88 177 36 5 29 153 133 171 23 171
Whooping cough  UTAH  Chicken pox. Diphtheria Influenza Jaundice (infectious)  Measles  Mumps Pneumonia Scarlet fever Smallpox—Provo Tuberculosis Whooping cough	36 84 12 116 1 7 23 24 16 8	Tuberculosis Whooping cough Scattering: Chicken pox. Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever.	13 88 177 36 5 29 153 133 171 23 171 16 15
Whooping cough  UTAH  Chicken pox. Diphtheria Influenza Jaundice (infectious) Measles Mumps. Pneumonia Scarlet fever Smallpox—Provo Tuberculosis Whooping cough	36 84 12 116 1 7 23 24 16 8 1 60	Tuberculosis Whooping cough Scattering: Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Scarlet fever Smallpox Tuberculosis	13 88 177 36 5 29 153 133 171 23 171 16 15
Whooping cough  UTAH  Chicken pox Diphtheria Influenza Jaundice (infectious) Measles Mumps Pneumonia Scarlet fever Smallpox—Provo Tuberculosis Whooping cough  VERMONT  Chicken pox	36 84 12 116 1 7 23 24 16 8 1 60	Tuberculosis Whooping cough Scattering: Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	13 88 177 36 5 29 153 133 171 23 171 16 15
Whooping cough  UTAH  Chicken pox. Diphtheria. Influenza. Jaundice (infectious). Measles. Mumps. Pneumonia Scarlet fever. Smallpox—Provo. Tuberculosis. Whooping cough.  VERMONT  Chicken pox. Diphtheria.	36 84 12 116 1 7 23 24 16 8 1 60	Tuberculosis Whooping cough Scattering: Chicken pox. Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever.	13 88 177 36 5 29 153 133 171 23 171 16 15
Whooping cough  UTAH  Chicken pox. Diphtheria. Influenza. Jaundice (infectious).  Measles. Mumps. Pneumonia. Scarlet fever. Smallpox—Provo. Tuberculosis. Whooping cough.  VERMONT  Chicken pox. Diphtheria. Measles.	36 84 12 116 1 7 23 24 16 8 1 60	Tuberculosis Whooping cough Scattering: Chicken pox. Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Scarlet fever. Smallpox Tuberculosis Typhoid fever. Whooping cough	13 88 177 36 5 5 29 153 133 1 1 23 171 16 15 3 94
Whooping cough  UTAH  Chicken pox. Diphtheria. Influenza Jaundice (infectious).  Measles. Mumps. Pneumonia. Scarlet fever. Smallpox—Provo. Tuberculosis Whooping cough  VERMONT  Chicken pox. Diphtheria. Measles. Mumps.	36 84 12 116 1 7 23 24 16 8 1 60 47 2 6 7	Tuberculosis Whooping cough Scattering: Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  WYOMING Cerebrospinal meningitis—Lincoln	13 88 1777 36 5 5 29 153 133 113 171 166 15 3 94
Whooping cough  UTAH  Chicken pox. Diphtheria Influenza Jaundice (infectious) Measles Mumps Pneumonia Scarlet fever Smallpox—Provo Tuberculosis Whooping cough  VERMONT  Chicken pox. Diphtheria Measles Mumps Scarlet fever	36 84 12 116 1 7 23 24 16 8 1 60 47 2 6 7 13	Tuberculosis Whooping cough Scattering: Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Scarlet fever. Smallpox Tuberculosis Typhoid fever. Whooping cough WYOMING Cerebrospinal meningitis—Lincoln Chicken pox.	133 888 1777 366 5 5 29 1533 1333 171 166 155 3 94
Whooping cough  UTAH  Chicken pox. Diphtheria. Influenza Jaundice (infectious).  Measles. Mumps. Pneumonia. Scarlet fever. Smallpox—Provo. Tuberculosis Whooping cough  VERMONT  Chicken pox. Diphtheria. Measles. Mumps.	36 84 12 116 1 7 23 24 16 8 1 60 47 2 6 7 13	Tuberculosis Whooping cough Scattering: Chicken pox. Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia. Scarlet fever. Smallpox Tuberculosis Typhoid fever. Whooping cough  WYOMING Cerebrospinal meningitis—Lincoln Chicken pox. Diphtheria.	133 88 1777 366 5 5 29 1533 11 16 15 15 3 3 94 1 20 1 1
Whooping cough  UTAH  Chicken pox. Diphtheria Influenza Jaundice (infectious) Measles Mumps. Pneumonia. Scarlet fever. Smallpox—Provo Tuberculosis Whooping cough  VERMONT  Chicken pox Diphtheria Measles. Mumps. Scarlet fever. Whooping cough	36 84 12 116 1 7 23 24 16 8 1 60 47 2 6 7 13	Tuberculosis Whooping cough Scattering: Chicken pox. Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  WYOMING Cerebrospinal meningitis—Lincoln Chicken pox Diphtheria Influenza	133 88 177 36 5 29 153 113 11 16 15 15 3 94 1 1 20 1 1 4
Whooping cough  UTAH  Chicken pox. Diphtheria Influenza Jaundice (infectious) Measles Mumps Pneumonia. Scarlet fever. Smallpox—Provo Tuberculosis Whooping cough  VERMONT  Chicken pox. Diphtheria. Measles Mumps. Scarlet fever. Whooping cough  VERMONT  VERMONT  Chicken pox. Diphtheria. Measles Mumps. Scarlet fever. Whooping cough	36 84 12 116 1 7 23 24 16 8 1 60 47 2 6 7 13 47	Tuberculosis Whooping cough Scattering: Chicken pox Diphtheria German measles Influenza Measles Muss Ophthalmia neonatorum Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough WYOMING Cerebrospinal meningitis—Lincoln Chicken pox Diphtheria Influenza Mumps	13 88 177 36 5 29 153 133 1 1 16 15 3 94 1 20 1 1 4 4 6 6
Whooping cough  UTAH  Chicken pox. Diphtheria Influenza Jaundice (infectious) Measles Mumps. Pneumonia. Scarlet fever. Smallpox—Provo Tuberculosis Whooping cough  VERMONT  Chicken pox Diphtheria Measles. Mumps. Scarlet fever. Whooping cough	36 84 12 116 1 7 23 24 16 8 1 60 47 2 6 7 13 47	Tuberculosis Whooping cough Scattering: Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  WYOMING Cerebrospinal meningitis—Lincoln Chicken pox Diphtheria Influenza Mumps Pneumonia	133 88 177 36 5 29 153 133 1 1 16 15 3 3 94 1 20 1 4 4 6 6 2
Whooping cough  UTAH  Chicken pox. Diphtheria Influenza Jaundice (infectious) Measles Mumps Pneumonia. Scarlet fever. Smallpox—Provo Tuberculosis Whooping cough  VERMONT  Chicken pox. Diphtheria. Measles Mumps. Scarlet fever. Whooping cough  VERMONT  VERMONT  Chicken pox. Diphtheria. Measles Mumps. Scarlet fever. Whooping cough	36 84 12 116 1 7 23 24 16 8 1 60 47 2 6 7 13 47	Tuberculosis Whooping cough Scattering: Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  WYOMING  Cerebrospinal meningitis—Lincoln Chicken pox Diphtheria Influenza Mumps Pneumonia Scarlet fevor	13 88 1777 366 5 5 299 1533 1333 1711 166 15 20 11 1 20 11 1 1 1 1 1 1 1 1 1 1 1 1 1
Whooping cough  UTAH  Chicken pox. Diphtheria. Influenza Jaundice (infectious).  Measles.  Mumps. Pneumonia. Scarlot fever. Smallpox—Provo. Tuberculosis. Whooping cough.  VERMONT  Chicken pox. Diphtheria. Measles. Mumps. Scarlot fever. Whooping cough.  VERMONT  Chicken pox. Diphtheria. Measles.  Mumps. Scarlot fover. Whooping cough.  VIRGINIA  Smallpox.	36 84 12 116 1 7 23 24 16 8 1 60 47 2 6 7 13 47	Tuberculosis Whooping cough Scattering: Chicken pox. Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  WYOMING Cerebrospinal meningitis—Lincoln Chicken pox Diphtheria Influenza Mumps Pneumonia Scarlet fevor Scarlet fevor Scarlet fevor Scarlet fevor Smallpox	13 88 1777 366 5 5 293 1333 1711 166 155 200 1 1 1 4 4 6 6 6 2 2 5 1 1
Whooping cough  UTAH  Chicken pox. Diphtheria. Influenza Jaundice (infectious).  Measles. Mumps. Pneumonia. Scarlet fever. Smallpox—Provo. Tuberculosis Whooping cough  VERMONT  Chicken pox. Diphtheria. Measles. Mumps. Scarlet fever. Whooping cough  VERMONT  Chicken pox. Diphtheria Measles. Mumps. Scarlet fover. Whooping cough	36 84 12 116 1 7 23 24 16 8 1 60 47 2 6 7 13 47	Tuberculosis Whooping cough Scattering: Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  WYOMING  Cerebrospinal meningitis—Lincoln Chicken pox Diphtheria Influenza Mumps Pneumonia Scarlet fevor	13 88 177 36 5 29 153 133 1 1 16 15 16 15 16 16 16 16 16 16 16 16 16 16 16 16 16

#### Reports for Week Ended January 16, 1926

DISTRICT OF COLUMBIA	Cases	NORTH DAKOTA—continued C	ases
Chicken pox	22	Diphtheria	. 5
Diphtheria	26	German measles.	. 15
Influenza	6	Measles	. 10
Measles	19	Mumps	. 13
Pneumonia	106	Pneumonia	. 8
Scarlet fever	28	Poliomyelitis	. 1
Tuberculosis	19	Scarlet fever	. 44
Typhoid fever	1	Smallpox	. 1
Whooping cough	3	Typhoid fever	. 2
NORTH DAKOTA	24	Whooping cough	. 4

#### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Cere- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laria	Men- sles	Pel- lagia	Polio- mye- lıtis	Scarlet fever	Small- pox	Ty- phoid fever
October, 1925		145	3		8		3	47		65
November, 1925		140								00
Idaho South Carolina	6 1	258 383	0 1, 574	0 686	22	0 1	0	39 79	29	10 135
December, 1925  Delaware Florida Idaho Louissana Maryland Massachusetts Michigan Minnesota New Jersey North Carolina Ohio	7 1 5	35 112 14 136 139 390 448 311 451 255 617	76 0 115 119 45 37 2 34	76 0 23 2 2 	8 1,184 5,583 1,215 31 1,896 105 4,640	23 0 17 0	1 0 1 12 15 5 3 7	17 40 45 73 226 988 1,385 1,160 785 285 1,521	0 64 121 0 0 75 29 0 45 246	3 50 1 67 73 34 103 26 46 46 46
Vermont Wisconsin	0 5	18 347	0 69	0	45 747	0	3 8	53 772	0 55	3 26

#### RECIPROCAL NOTIFICATIONS, DECEMBER, 1925

Notifications regarding communicable diseases sent during the month of December, 1925, to other State health departments by departments of health of certain States

Referred by—	Scarlet fever	Small- pox	Tuber- culosis	Typhoid fuver
Connecticut				1
Illinois.	2	1	3	3
Minnesota		2	24	3

#### SMALLPOX AT KEY WEST, FLORIDA

In a report dated January 23, 1926, Surg. Gwyn, in charge of Marine Hospital No. 10, at Key West, Fla., states that a group of smallpox cases appearing in Key West have been traced to a smallpox patient recently arrived from Miami to visit his family.

The report states that the local health officer is undertaking an extensive vaccination campaign among the school children and the general population. At the request of steamship companies, the crews of ferry and passenger vessels are being vaccinated by Surg. Gwyn, who is also vaccinating the local personnel of the Customs Service and the Coast Guard crew.

#### PLAGUE-ERADICATIVE MEASURES IN THE UNITED STATES

The following items were taken from the reports of plague-eradicative measures from the cities named:

$Los\ Angeles,\ Calif.$	
Week ended Jan. 9, 1926:	
Number of rats trapped	3,250
Number of rats found to be plague infected	0
Number of squirrels examined	719
Number of squirrels found to be plague infected	0
Number of mice trapped	3, 556
Number of mice found to be plague infected	0
Date of discovery of last plague-infected rodent, Nov. 6, 1925.	
Date of last human case, Jan. 15, 1925.	

#### Oakland, Calif.

#### (Including other East Bay communities)

Week ended Jan. 9, 1926:  Number of rats trapped  Number of rats found to be plague infected	
Totals:	
Number of rats trapped Jan. 1, 1925, to Jan. 9, 1926	79, 861
Number of rats found to be plague infected	21
Number of squirrels examined May 1 to Aug. 1, 1925	7, 277
Number of squirrels found to be plague infected	0
Number of mice trapped Jan. 1, 1925, to Jan. 9, 1926	30, 583
Date of discovery of last plague-infected rat, Mar. 4, 1925.	•
Date of last human case, Sept. 10, 1919.	

# GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended January 9, 1926, 36 States reported 1,537 cases of diphtheria. For the week ended January 10, 1925, the same States reported 1,543 cases of this disease. One hundred and one cities, situated in all parts of the country and having an aggregate population of more than 24,000,000, reported 777 cases of diphtheria for the week ended January 9, 1926. Last year for the corresponding week they reported 622 cases. The estimated expectancy for these cities was 979 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-three States reported 7,157 cases of measles for the week ended January 9, 1926, and 2,166 cases of this disease for the week ended January 10, 1925. One hundred and one cities reported 5,136 cases of measles for the week this year, and 1,096 cases last year.

Poliomyelitis.—The health officers of 36 States reported 24 cases of poliomyelitis for the week ended January 9, 1926. The same States reported 22 cases for the week ended January 10, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-six States—this year, 3,721 cases; last year, 3,898 cases. One hundred and one cities—this year, 1,358 cases; last year 1,484 cases; estimated expectancy, 937 cases.

Smallpox.—For the week ended January 9, 1926, 36 States reported 600 cases of smallpox. Last year for the corresponding week they reported 895 cases. One hundred and one cities reported smallpox for the week as follows: 1926, 193 cases; 1925, 317 cases, estimated expectancy, 91 cases.

Typhoid fever.—Two hundred and sixty-eight cases of typhoid fever were reported for the week ended January 9, 1926, by 35 States. For the corresponding week of 1925, the same States reported 353 cases of this disease. One hundred and one cities reported 54 cases of typhoid fever for the week this year and 114 cases for the corresponding week last year. The estimated expectancy for these cities was 40 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 95 cities, with a population of about 24,000,000, as follows: 1926, 1,103 deaths; 1925, 844.

#### City reports for week ended January 9, 1926

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic perids are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1916 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

		Oheala	Dipht	heria	Influ	enza	36		D
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine: Portland	75, 333	5	2	0	0	0	2	15	3
New Hampshire: Concord	22, 546	0	0	0	0	0	0	0	1
Vermont: Barre		0	0	0	0	0	0	0	1
Massachusetts:	10,008		-	-		ł	1		1
Boston Fall River Springfield	779, 620 128, 993	83	65 6	33 6	0	0	200 185	24	37
Springfield Worcester	142, 065 190, 757	11	4 5	0 8	0	1 0	13 288	0 2	2 20
Rhode Island:		10	2	1	0	0	24	0	3
Pawtucket Providence Connecticut:	267, 918	ő	12	5	ŏ	Ŏ	405	ŏ	22
Bridgeport	(1)	2	9	4 2	1	1 0	138	0	4
Hartford New Haven	160, 197 178, 927	7 26	8 5	ő	0	ő	25 29	ŏ	8 3
MIDDLE ATLANTIC					1		,		1 '
New York:								1	
Buffalo New York	538, 016 5, 873, 356		23			2			17
Rochester	5, 873, 356 316, 786 182, 003	26 20	10	10	0	0	51 24	34	8 7
New Jersey: Camden	128, 642	17	6	3	1	0	36	4	10
Newark	452, 513 132, 020	118	20	20	4 3	3 2	104	3 0	19
Trenton Pennsylvania:	ŀ	5	6	2	0	1 -	0	1	4
Philadelphia Pittsburgh	631, 563	- 245 64	77 25	88 20	ō	6 3	204 21	14	101 42
Reading	112, 707	28	5	1	0	0	0	0	4
EAST NORTH CENTRAL								1	
Ohio: Cincinnati	409, 333	14	13	24	0	4	4	0	10
Cleveland Columbus	936, 485	67	40	32 10	3 0	5 1	1, 298	2 0	52
Toledo	279, 836 287, 380	47	11	3	ŏ	4	65	0	11
Indiana: Fort Wayne Indianapolis	97, 846	4	5	1	0	0	1	0	1
Indianapolis South Bend	358, 819 80, 091	37 8	16 1	3 4	0	0	168	0	1 13 2 3
Terre HauteIllinois:	71, 071	2	1	2	0	1	0	0	3
Chicago		162	143 2	69 5	15 0	4 0	52 1	10 15	89 5
Peoria Springfield		9	3	ĭ	4	ő	ō		6
Michigan: Detroit	1, 245, 824	134	73	47	4	1	1,043	8	. 52
Flint Grand Rapids	.) 130, 316	20 16	9 5	6 2	0	0	3	. 0	3
* * *									

¹ No estimate made.

City reports for week ended January 9, 1926—Continued

		Chick-	Dipht	heria	Influ	ionza	Mea-		Pneu-
Division, State, and city	Population July 1, 1925, estimated	en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	sles, cases re- ported	Mumps, cases re- ported	monia, deaths re- ported
EAST NORTH CENTRAL— continued									
Wisconsin: Madison Milwaukee Racine Superior	46, 385 509, 192 67, 707 39, 671	15 167 10 7	1 22 2 1	0 17 3 1	0 1 0 0	0 1 0 0	3 1 0 0	0 19 0 0	0 14 4 2
WEST NORTH CENTRAL									
Minnesota: Duluth	110, 502 425, 435 246, 001	29 52 62	2 21 16	7 30 23	0 0 0	0 1 0	0 13 10	4 1 5	5 11 12
Davenport  Des Moines Sioux City Waterloo	(1) (1) (1) 36, 771	7 2 10 0	1 4 2 0	0 6 0 1	0 0 0		0 3 1 0	0 0 1 4	
Missour:  Kansas City St. Joseph St. Louis North Dakota:	367, 481 78, 342 821, 543	57 2 36	12 4 57	8 1 64	3 0 1	2 0 1	44 0 5	1 0 3	11 6
Fargo Grand Forks	26, 403 14, 811	8	0	0	0	0	2 0	33 0	0
South Dakota: Aberdeen Sioux Falls	15, 036 30, 127	0 14	0 1	0	0	0	0	103 0	0
Nebraska: Lincoln Omaha	60, 941 211, 768	6 13	3 5	0 5	0	0	1 0	0	3 15
Kansas: Topeka Wichita	55, 411 88, 367	21 9	2 5	2 2	0	0	0	0	4 3
SOUTH ATLANTIC	33,001			_					
Delaware: Wilmington	122, 049	4	2	5	0	0	18	0	7
Maryiana: Baltimore	+	146	31	10	34	5	601	138	53 2
Cumberland Frederick District of Columbia:	796, 296 33, 741 12, 035	0	1	0	0	ő	ő	Ö	ő
Washington Virginia:	497, 906	28	19	59	5	2	12	0	32
NorfolkRuchmond	30, 395 (1) 186, 403 58, 208	28 22 6	1 3 7 2	, 0 4	0 0 2	0	1 1 8	3 0 5 1	2 8 6
West Virginia:	1	. 2		1	. 0	0	0	1	8
Charleston Huntington Wheeling	49, 019 63, 485 56, 208	0 1	1 1 2	0 2 4	0	0	9 0	0	2 3 1
North Carolina	30, 371	2	0	0	0	0	0	0	. 2
Wilmington Winston-Salem South Carolina:	69,031	9	0	0	0	0	43	0	4 5
Charleston Columbia Greenville	73, 125 41, 225 27, 311	0 5 4	0 1	0 0	0 0	0	000	0	5 0 0
Georgia: Atlanta Brunswick Savannah	1	4 1 3	4 0 1	3 0 3	34 0 6	1 0	1 0	0 1 0	6 0 4
Florida: St. Petersburg Tampa	26, 847 94, 743	0	0	0	0	0	0	0	2
A CHANGE AND A COURSE	57,170			- 1			. 0	. 2	

¹ No estimate made.

## City reports for week ended January 9, 1926-Continued

		Chick-	Dipht	heria.	Influ	enza			
Division, State, and city	Population July 1, 1925, estimated	en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases 10- ported	Deaths 10- ported	Mea- sles, cases re- ported	Mumps, eases re- ported	Pneu- rionia, deaths re- ported
EAST SOUTH CENTRAL									-
Kentucky: CovingtonLouisvilleTennessee:	58, 309 305, 935	1 3	1 8	0 3	0 6	0	0 8	0	2 23
Memphis Nashville	174, 533 136, 220	12 3	7 2	1 1	0	6 3	0	0	13 9
Alabama: Birmingham Mobile Montgomery	205, 670 65, 955 46, 481	14 9 10	3 1 1	1 1 3	15 2 0	4 2 0	2 0 0	2 0 37	13 4 0
WEST SOUTH CENTRAL Arkansas:									
Fort SmithLittle Rock	31, 643 74, 216	5 0	1	0	0 1	0	0	0	<u>ž</u>
Louisiana: New Orleans Shreveport	414, 493 57, 857	2 12	15 1	13 4	12 0	6 0	0	0 1	22 4
Oklahoma: Oklahoma City Tulsa	(¹) 124, 478	0 2	3	1	4 0	0	0	0	5 0
Texas: Dallas Galveston Houston San Antonio	194, 450 48, 375 164, 954 198, 069	22 1 2 0	9 2 4 2	7 0 15 5	2 0 0 0	3 0 0 1	0 0 0 0	0 0 0	10 5 17 11
MOUNTAIN			 					-	
Montana: Billings	17, 971 29, 883 12, 037 12, 668	10 12 0 2	1 1 0 1	0 0 0 5	0000	0 0	0 0	11 69 0	0 0
Idaho: Boise	23, 042	7	0	0	0	0	0	0	0
Colorado: Denver Pueblo	280, 911 43, 787	67	10 3	7	0	5 0	5 0	1 0	6 4
New Mexico: Albuquerque Arizona:	21,000	5	0	0	0	0	1	1	1
Phoenix Utah: Salt Lake City	38, 669	73	0 3	7	0	0	0	21	4
Nevada: Reno	12,665	0	0	0	0	0	0	0	0
PACIFIC									
Washington: Scattle Spokane Tacoma	(¹) 108, 897 104, 455	46 14 0	6 4 3	2 1 2	0	0	7 0 0	111 0 2	
Oregon: Portland California:	282, 383	9	9	23	0	0	1	10	8
Los Angeles Sacramento San Francisco		45 4 61	39 2 25	21 1 9	18 8 41	3 3 10	11 0 6	6 0 5	34 9 17

¹ No estimate made.

City reports for week ended January 9, 1926—Continued

	Scarle	fover	<u> </u>	mallpo	x		Ту	phoid fo	ever		
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Tuber- culo- sis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Whooping cough, cases reported	Deaths, all causes
NEW ENGLAND											
Maine: Portland	2	4	0	0	0	0	0	3	0	9	21
New Hampshire: Concord	1	0	0	0	0	1	0	0	0	0	11
Vermont: Barre	1	0	0	0	0	0	0	0	0	0	4
Massachusetts: Boston	50	78	0	0	0	12	1 0	7	0	88 10	249 33
Fall River Springfield	3 8	3 4	0	0	0	0 2	0	0	0	10 14	37 68
Worcester Rhode Island:	11	8 2	0	0	0	0	0	0	0	7	16
Pawtucket Providence Connecticut:	8	9	ŏ	ŏ	ő	2	ŏ	ĭ	ŏ	3	94
Bridgeport Hartford	6 8	9	0	0	0	0	0	0	0	10	30 34
New Haven	9	7	Ö	0	0	1	0	1	1	6	58
MIDDLE ATLANTIC			` .								
New York: Buffalo	24		0		0	7	1		4		168
New York Rochester	187 14 13	23 3	0 0 0	0	0	3 2	12 0 0	0	0	12 44	81 48
Syracuse New Jersey: Camden	4	15	0	0	0	0	0	0	0	0	41
Newark Trenton	20	20	ŏ	0	ŏ	6	ŏ	0	ŏ	22	111
Pennsylvania: Philadelphia	60	128	0	0	0	36	. 4	3	1	29	668
Pittsburgh Reading	33	8	1 0	0	0	7	0	0	0	0 5	240 29
EAST NORTH CENTRAL			1								
Ohio: Cincinnati	. 11	33	1		0	6	0	,	0	46	169
Cleveland	36	47 23	2	8 2 8	0	16	2 0	2 2 1	0	84	240 81
Toledo Indiana:	16	20	3	0	0	4	0	ō	ŏ	4	89
Fort Wayne Indianapolis	10	2 10	0 5	0 37	0	0	0	0	0	2 44	29 105
South Bend Terre Haute	2	3 2	0	13 0	0	0	0	0	0	0	15 19
Illinois: Chicago	137	165	2	1	0	52	4	3	1	52	739
Peoria Springfield Michigan:	6 2	0	0	0	0	3	0	0	0	8 3	37 34
Detroit Flint	. 88	128	4	0	0	19	2	5	1 0	75 41	314 23
Grand Rapids. Wisconsin:		19	î	2	ŏ	Ô	ĭ	ĭ	ŏ	33	40
Madison Milwaukee	35	9	1	0	0		0	0	0	8 49	5 138
Racine Superior	5 2	7 3	1 2	0	) õ	1	0	, o	0	14	15 10
WEST NORTH CENTRAL											
Minnesota: Duluth		-	.		_	1 -		_	-		
Minneapolis	- 6 43 22	23 53	13	0	000	6	0	0	0	6	107
St. Paul Iowa: Davenport	_ 22	43	10	0	0	1	] 1	0	0	15	69
Thea Mining	- i	6 2	2	13			- 0	000		. 0	
Sioux City Waterloo	] 3	2	i	1 1			3 8	Ĭŏ		_ 3	

City reports for week ended January 9, 1926—Continued

	Scarle	t fever		Smallpo	) ү	Tuber-	Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases 16- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths ie-	mated	Cases re- ported	Deaths 10- ported	cough, cases re- ported	Deaths, all causes
WEST NORTH CENTRAL—contd.											
Missouri:  Kansas City St Joseph St. Louis North Dakota:	14 3 35	22 1 109	1 1 2	0 0 1	0 0 0	7 0 10	0 0 2	0 0	0 0 0	12 1 4	88 29 228
Fargo Grand Forks South Dakota:	2 1	5 0	1 0	0	0	0	0	0	0	7 0	
Aberdeen Sioux Falls Nebraska:	0	5 4	0	0 2	0	0	0	0	0	0	
Lincoln Omaha Kansas:	2 5	7 20	0 4	0 15	0	0 4	0	0	0	5 7	14 58
Topeka Wichita	2 4	7 2	0	0 1	0 0	0 2	0	0	0	10	15 31
SOUTH ATLANTIC Delaware:											
Wilmington Maryland: Baltimore	3 30	5 21	0	0	0	2 13	0 2	0 2	0	2 40	34 270
Cumberland Frederick District of Colum-	0	0	0	0	0	0	0	0	0	0 0	5
bia; Washington Virginia:	22	25	0	0	0	8	2	0	0	7	178
Lynchburg Norfolk Richmond Roanoke	0 1 5 1	3 8 5 1	0	0 0 0 1	0 0 0	1 3 7 2	0 0 1 0	0	0 0	0 0 2	13 64 27
West Virginia: Charleston Huntington Wheeling	1 1 1	0 1 1	1 1 0	0	0 0 0	0 0	0	0 0	0	8 0 2	27 24 17
North Carolina: Raleigh Wilmington Winston-Salem South Carolina:	1 1 1	1 0 3	0 0 1	0 0 8	0	0 1 2	0	0 0 0	000	0 0 4	14 21
Charleston Columbia Greenville Georgia:	0	1 0	0 1 0	,0 0 0	0	0	0 0	0	0	0 8 0	26 6
Atlanta Brunswick Savannah Florida:	3 0 1	0 1	0 0	0	0	0 4	0 0 1	0 0	0 0	0	63 2 34
St. Petersburg Tampa	1 0	0	0	0 14	0	0	0	0	0	0	13 45
EAST SOUTH CENTRAL											
Kentucky: Covington Louisville Tennessee:	1 5	1 3	0	0	0	1 2	0	0	0	0	23 86
Memphis Nashville Alabama:	2	9 2	0	0	0	6	1 0	1	0	1 2	70 48
Birmingham Mobile Montgomery	0 1	6 2 0	0 0 0	9 0 0	0 0 0	1 2 0	1 0 0	0	0	10 0 1	98 21 15

City reports for week ended January 9, 1926-Continued

	Scarle	t fever		Smallpo	x	Tuber-	Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy		Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST SOUTH CENTRAL											
Arkansas: Fort Smith Little Rock Louisiana:	1 2	1 3	0	0			0	0		0	
New Orleans Shreveport Oklahoma:	4 0	6 4	0 3	4 0	0	20 1	3 0	4	0	6 2	181 30
Oklahoma City Tulsa	2 2	4	1	0	0	1 0	0	0	0	0	28
Texas: Dallos Galveston Houston San Antonio	3 0 2 0	9 0 2 1	2 0 0 0	0 2 6 0	0 0 0 0	3 1 6 8	0 0 0	0 0 0 0	0 0 0	8 0 0 0	56 24 73 56
MOUNTAIN											
Montana: BillingsGreat Falls HelenaMissoula	2 1 0 0	0 4 1 1	0 1 0 0	0 2 0 1	0 0 0 0	1 1 2 0	0 0 0 0	0 0 0 0	0 0 0	1 1 0 0	4 9 7 5
Idaho: Boise Colorado:	2	0	0	1	0	0	0	0	0	0	8
Denver Pueblo New Mexico:	9 2	13 3	3 0	0	0	10 1	0	0	1 0	21 1	74 15
Albuquerque Arizona:	1	7	0	0	0	4	0	0	0	2	13
Phoenix Utah: Salt Lake City_	0	0	3	0	0	8 2	0	0	0	0 19	30 33
Nevada: Reno	1	0	0	0	0	0	0	0	0	0	5
PACIFIC											
Washington: Seattle Spokane Tacoma Oregon:	9 4 3	21 20 2	2 5 2	2 0 4	ō	1	1 1 0	1 0 0	ō	4 7 0	28
Portland California:	7	25	8	3	0	. 0	1	1	0	2	******
Los Angeles Sacramento San Francisco.	17 2 13	26 1 20	2 1 1	26 9 0	1 0 0	28 3 24	2 1 1	3 0 0	1 0 0	3 0 2	285 35 234

## City reports for week ended January 9, 1926—Continued

	men	rospinal ingitis	encel	hargic phalitis	Pel	llagra	Poliom tile	nyelitis (infan- paralysis)		
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths	
NEW ENGLAND										
Massachusetts Boston Fall River	3 1	1 0	0	0	0	0	0	0	0	
MIDDLE ATLANTIC										
New Jersey Pennsylvania Philadelphia	. 1	0	0	0	0	0	0 0	0	0	
EAST NORTH CENTRAL										
Ohio: Cleveland	. 0	0	0	0	0	0	0	1	0	
Illinois. Chicago	. 1	1	0	0	0	0	0	1	0	
Detroit	0	0	1	0	0	0	0	0	0	
WEST NORTH CENTRAL										
North Dakcta [*] Fargo	. 0	0	0	0	0	0	0	1	1	
SOUTH ATLANTIC								1		
Maryland: Bultimore Virginia:	. 0	0	2	2	0	0	0	0	0	
Richmond	. 0	0	0	0	0	0	0	1	0	
Atlanta Savannah	0	0	0	0	0	1 1	0	0	0	
EAST SOUTH CENTRAL										
Tennessee: MemphisAlabama:	. 0	0	0	. 0	0	1	0	0	;	
Mobile	- 0	0	0	0	0	1	0		0	
WEST SOUTH CENTRAL								ļ	,	
Arkansas: Lattle Rock	. 0	0	0	0	0	1	0	0	0	
Louisiana: New Orleans	. 0	0	0	0	2	1	0	0	0	
Texas: Dallas	. 0	, 0	0	. 0	0	2	o	. 0	0	
MOUNTAIN										
New Mexico: Albuquerque	. 0	0	0	0	0	0	0	1		
Arizona: Phoenix	. 0	0	0	0	1	1	0	0	0	
Utah: Salt Lake City	. 2	1	0	0	0	0	0	0	C	
PACIFIC										
Washington: Scattle	. 1	0	0	0	0	0	0	0	l c	
California: Los Angeles San Francisco	. 1	0	0	0	1 0	1 0	0	0	0	

The following table gives the rates per 100,000 population for 103 cities for the two-week period ended January 9, 1926, compared with those for a like period ended January 10, 1925. The population figures used in computing the rates are approximate estimates as of July 1, 1925 and 1926, respectively, authoritative figures for many of the cities not being available now. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and more than 29,750,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, December 27, 1925, to January 9, 1926— Annual rates per 100,000 population—Compared with rates for the corresponding period of 1924-25 ¹
CASE RATES

Diphtheria				Scarlet fever			
	Week	ended-		Week ended—			
Jan.3, 1925	Jan. 2, 1926	Jan. 10, 1925	Jan. 9, 1926	Jan.3, 1925	Jan. 2, 1926	Jan. 10, 1925	Jan. 9, 1926
149	129	. 145	² 168	284	221	307	2 294
171	- 139 124 129 154 126 109 146 109 124	247 130 122 139 161 110 137 231	139 2 190 151 283 178 52 189 182 97	587 285 227 549 192 158 79 157 155	300 166 243 493 137 99 120 246 205	637 323 166 733 148 210 141 370 180	295 259 330 580 158 119 112 237 243
	Sma	llpov		Typhoid fever			
	Week	nded-		Week ended—			
Jan. 3, 1925	Jan. 2, 1926	Jan. 10, 1925	Jan 9, 1926	Jan.3, 1925	Jan. 2, 1926	Jan. 10, 1925	Jan. 9, 1926
41	23	55	2 42	36	10	32	1 12
0 3 25 125 36 341 31 46 108	0 1 22 18 24 73 22 36 148	0 3 38 213 29 362 62 28 141	0 48 65 43 47 52 36 111	24 58 20 4 38 37 35 0	7 7 6 6 11 31 47 9	14 49 13 6 52 47 66 9 25	31 28 11 2 9 16 22 9
	Jan. 3, 1925  Jan. 3, 1925  41  0 3 3 25 5 125 36 341 31 46	Week of 1925 1926 149 129 140 124 141 129 160 124 141 146 100 141 146 100 124 141 146 100 124 141 146 100 124 141 146 100 124 141 146 100 124 141 146 100 124 141 146 100 124 141 146 100 124 141 146 100 124 141 146 100 124 141 146 100 124 141 146 100 124 141 146 100 124 141 146 100 124 141 146 146 146 146 146 146 146 146 14	1925   1926   1925	Week ended	Week ended—    Jan. 3,   Jan. 2,   Jan. 10,   Jan. 9,   Jan. 3,   1925   1926   1925   1925   1925   1926   1925	Week ended	Week ended

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1925 and 1926, respectively.

Buffalo, N. Y., and New York, N. Y., not included.

Summary of weekly reports from cities, December 27, 1925, to January 9, 1926— Annual rates per 100,000 population—Compared with rates for the corresponding period of 1924-25—Continued

#### CASE RATES-Continued

	Measles			
		Week	ended—	
	Jan 3, 1925	Jan. 2, 1926	Jan. 10, 1925	Jan. 9, 1926
103 cities	150	601	207	² 1, 113
New England Middle Atlantic East North Central West North Central West North Central	367 120 277 10	2, 373 550 736 59	381 168 391 18	3, 094 ² 564 1, 761 148
South Atlantic East South Central West South Central	50 16 9 111	460 104 0 82	79 26 4 129	1, 289 52 0 55
MountainPacific	75	46	185	50 65

#### DEATH RATES

	Influenza				Pneumonia			
		Week	nded			Week e	nded—	
	Jan. 3, 1925	Jan. 2, 1926	Jan. 10, 1925	Jan. 9, 1926	Jan. 3, 1925	Jan. 2, 1926	Jan. 10, 1925	Jan. 9, 1926
96 cities	18	15	20	3 21	195	184	185	³ 220
New England. Middle Atlantic. East North Central West North Central South Atlantic. East South Central West South Central Mountain Pacific	2 21 9 8 25 58 48 37 11	12 10 8 15 19 31 43 27 39	17 20 15 13 33 42 39 18	9 3 18 12 8 15 83 47 46 57	168 225 155 91 232 278 324 222 167	210 186 142 117 261 259 312 264 135	117 227 143 87 232 268 247 222 164	246 ³ 240 176 140 289 332 355 127 220

² Buffalo, N. Y., and New York, N. Y., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively

Group of cities	Number of cities reporting	Number of cities reporting	Aggregate of cities cases	population reporting	Aggregate of cities deaths	population reporting
		deaths	1925	1926	1925	1926
Total	103	96	29, 944, 996	30, 473, 129	29, 251, 658	29, 764, 201
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	12 10 16 14 21 7 8 9	12 10 16 11 21 7 6 9	2, 176, 124 10, 346, 970 7, 481, 656 2, 594, 962 2, 716, 070 993, 103 1, 184, 057 563, 912 1, 888, 142	2, 206, 124 10, 476, 970 7, 655, 436 2, 634, 662 2, 776, 070 1, 004, 953 1, 212, 057 572, 773 1, 934, 084	2, 176, 124 10, 346, 970 7, 481, 656 2, 461, 380 2; 716, 070 993, 103 1, 078, 198 563, 912 1, 434, 245	2, 206, 124 10, 476, 970 7, 655, 436 2, 499, 036 2, 776, 070 1, 004, 953 1, 103, 695 572, 773 1, 469, 144

⁸ New York, N. Y., not included.

### FOREIGN AND INSULAR

#### THE FAR EAST

Report for week ended December 26, 1925.—The following report for the week ended December 26, 1925, was transmitted by the Far Eastern Bureau of the health section of the League of Nations' secretariat, located at Singapore, to the headquarters at Geneva:

	Pla	ague	Ch	olera	Sma	llpox
Port	Cases	Deaths	Cases	Deaths	Cases	Deaths
Calcutta. Bombay. Madras Rongoon Karach. Necapatam Basra. Singapore Port Swettenham Pennag Batavia. Soerabaya. Samarang. Belawan Deli Padang (Sumatra). Sabang (Rhio) Macassar Pontianak (Borneo) Sandakan (North Borneo) Kuching (Sarawak) Manila. Zamboanga Bangkok Manila. Jamboanga Bangkok Manila. Jamboanga Bangkok Manila. Jamboanga Bangkok Keelung Sakaa. Keelung Fusan. Dairen. Adelaide Brisbane. Fremanile Melbourne. Sydney. Kockhamnton. Townsville Port Darwin Broome. Port Moresby Lionollu	Cases		Cases		<del></del> -	Deaths  3 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Suez Alexandria Port Said Mombasa (Kenya) Zanzibar Massowah Dibuti Louenco-Marques Durban East London Port Elizabeth Cape Town Port Louis (Mauritius) Seychelles	000	000000000000000000000000000000000000000	1 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	

#### BAHAMA ISLANDS

Communication with Florida prohibited by Bahama authorities.—The American consul at Nassau, Bahama Islands, reporting under date of January 25, 1926, states that the Bahama Government has prohibited communication with Florida because of the presence of small-pox at Miami.

BRAZIL

Mortality from malaria—Para.—During the period December 20, 1925, to January 2, 1926, 15 deaths from malaria were reported at Para, Brazil.

INDO-CHINA

Cholera—Plague—Smallpox—Influenza—September, 1925.—During the month of September, 1925, cholera, plague, smallpox, and influenza were reported in Indo-China, as follows:

Cholera.—Cases, 9; deaths, 5; corresponding month of the year 1924—cases, 7 (2 European); deaths, 4 (native).

Plague.—Cases, 17; deaths, 16; corresponding month of 1924—12 fatal cases.

Smallpox.—Cases, 122; deaths, 33; corresponding month, 1924—cases, 78; deaths, 22. For distribution according to Provinces see pages 194, 195.

Influenza.—During the same period there were reported 101 cases of influenza with 5 deaths (12 cases in Cambodia, 77 in Laos, 12 in Tonkin); corresponding period, 1924—cases, 28; deaths, 5.

#### **JAMAICA**

Smallpox (reported as alastrim)—November 27-December 26, 1925.—During the four-week period ended December 26, 1925, 52 cases of smallpox (reported as alastrim) were reported in the Island of Jamaica, occurring in localities other than Kingston; in the parish of Kingston 43 cases were reported.

Other diseases.—During the same period 6 cases of chicken pox, 1 case of lethargic encephalitis, 28 cases of pulmonary tuberculosis, and 50 cases of typhoid fever were reported in the Island of Jamaica.

#### MADAGASCAR

Exhumation and reburial of bodies of persons dead from plague.—By decree made public November 7, 1925, the removal and reburial of bodies of persons dead from plague is authorized by law, after four years' burial and if carried out with sanitary precautions. Such removals were prohibited in 1921, the time of the appearance of plague in Madagascar.

#### MEXICO

Leprosy—Typhus fever—Tampico.—During the 10 days ended December 31, 1925, one case of leprosy and one case of typhus fever were reported at Tampico, Mexico. The case of typhus fever ended fatally during the 10 days ended January 10, 1926.

#### PERU

Typhoid fever in Callao.—In an article written under date of December 8, 1925, Dr. A. L. Barton, of Lima, invites attention to an outbreak of typhoid fever in Callao, which he attributes to a contaminated water supply. The article states that the disease appeared in all parts of the city, and that cases have occurred also in the districts of Chucuito and Bellavista.

#### UNION OF SOUTH AFRICA

Plague—Orange Free State—November 29-December 5, 1925.— During the week ended December 5, 1925, a fatal case of plague, occurring in a native, was reported in the Boshof district, Orange Free State, Union of South Africa.

Typhus fever.—During the same period outbreaks of typhus fever were reported in Natal and the Orange Free State at one locality each.

#### CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

Reports Received During Week Ended January 29, 1926 ¹ CHOLERA

Place	Date	Cases	Deaths	Remarks
India	Dec. 6-12	32	13	Nov. 8-14, 1925: Cases, 1,824
Madras Rangoon Indio-China	Nov. 22-Dec. 5	3 <u>2</u>	13	deaths, 1,041. September, 1925; Cases, 9; daeths,
Province—				5. September, 1924: Cases, 7; deaths, 4 (European cases 2.)
Annam Cochin China	Sept. 1-30dodo	2 5 2	3	September, 1924: None. September, 1924: 1 case; 1 death.
Tonkin Philippine Islands: Manila	Nov. 23-Dec. 5	4	3	September, 1924: None.
Provinces Bataan	Nov. 30-Dec. 6	6	6	Subject to correction.
Do Bulacan	Dec. 7-13 Nov. 23-Dec. 6 Dec. 7-13	80 28	2 18 16	
Do Laguna Do	Nov. 23-29 Nov. 30-Dec. 13	12	10 10 3	
Nueva Ecija Do	Nov. 30-Dec. 6 Dec. 7-13	5 1	1	
Pampanga Do	Nov. 23-29 Nov. 30-Dec. 13	38 23	3 27	v.
Romblon Siam: Bangkok	Dec. 7-13 Nov. 22-Dec. 5	122	12 62	e e

From medical officers of the Public-Health Service, American consuls, and other sources.

# CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER—Continued Reports Received During Week Ended January 29, 1926—Continued PLAGUE

	<u> </u>	ı	ı	
Place	Date	Cases	Deaths	Remarks
Deltick Book & Circ.				
British East Africa: Kenya—				
Kisumu	Nov. 29-Dec. 5	1	1	
Colombo				Nov. 29-Dec. 5, 1925: 1 plague
Greece:				rodent.
Patras India	Dec. 6-12	3	1	Nov. 8-14, 1925: Cases, 1,023;
Madras Presidency	Nov. 15-21 Nov. 22-Dec. 5	35	22	deaths, 771.
RangoonIndo-China	Nov. 22-Dec. 5	3	2	Sentember 1995: Casas 17:
				September, 1925: Cases, 17; deaths, 16. September, 1924: Cases, fatal, 12.
Province— Cambodia	Sept. 1-30	11	11	Santamber 1024: Ceese 0.
				September, 1924: Cases, 9; deaths, 9. September, 1924:
Cochin China	do	6	5	deaths, 9. September, 1924: Cases, fatal, 9. September, 1924: 1 case, 1 death.
Java:				
Batavia Soerabaya	Nov. 28-Dec. 4 Nov. 15-21	33	31	In Province.
Siam:	i i			
Bangkok Straits Settlements:	Nov. 22-28	1	1	
Singapore Union of South Africa:	Nov. 1-21	5	5	
Orange Free State—				~
Boshof District	Nov. 29-Dec. 5	1	1	In native.
	1	<u> </u>		
	SMAI	LLPOX		
Thirty Theat I faire.	l	I	1	
British East Africa: Kenya—		l		
Mombasa	Nov. 29-Dec. 5	1		In contact.
Canada: Manitoba—	[			
Winnipeg Ontario—	Jan. 3-9	6		
Ottawa	do	1		• •
Toronto Saskatchewan—	do	2		
Moose Jaw	do	2		
Ceylon: Colombo	Dec. 6-12	1		Port case.
China:	1	1 -		in Dr. D. Councy
Amoy Chungking	Nov. 29-Dec. 5		1	Present.
Hongkong	Nov. 22-28	3		T 1030Mbf
Manchuria— Dairen	Nov. 30-Dec. 6	5	2	
Shanghai	Dec. 5-19	10	11	Cases foreign, in International and French Concessions;
		l		and French Concessions; deaths foreign and native.
Great Britain:				•
England and Wales Hull	Dec. 20-26	5		Dec. 20-26, 1925: Cases, 178.
India	1			Nov. 8-14, 1925: Cases, 1,636;
Calcutta	Nov. 29-Dec. 5 Dec. 6-12	6	3 2	deaths, 362.
Rangoon	Dec. 6-12 Nov. 22-28	ĭ		G - t 1
Indo-China				September, 1925: Cases, 122; deaths, 33. September, 1924: Cases, 78; deaths, 22.
<b>5</b>				Cases, 78; deaths, 22.
Province— Annam	Sept. 1-30	47	9	September, 1924: Cases, 8; deaths,
*		29	l l	2.
Cambodia			. 8	September, 1924; Cases, 16; deaths, 1.
Cochin China	do	28	16	September, 1924: Cases, 43; deaths, 19.
Tonkin	do	18		September, 1924: Cases, 11. Nov. 27-Dec. 26, 1925: Cases, 52
Jamaica Kingston	1	43		Nov. 27-Dec. 26, 1925: Cases, 52 (reported as alastrim).
Japan:	I .			• • • • • • • • • • • • • • • • • • • •
Taiwan (island) Yokohama	Dec. 1-10 Dec. 14-20	2		Island.
~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1 AP V-V-1 A-4 "AV		14164444	• ' ' '

# CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER-Continued

# Reports Received During Week Ended January 29, 1926—Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks					
Java: Soerabaya Mexico: Aguascalientes Portugal: Oporto. Spain: Valencia Switzerland: Lucerne Tunisia: Tunis	Nov. 15-21 Dec. 27-Jan. 2 Dec. 13-19 Dec. 20-26 Nov. 1-30 Dec. 11-20	1 1 2 10	5 1 1	,					
	TYPHUS FEVER								
Mexico:     Mexico City     Do Tampico Union of South Africa:     Natal. Orange Free State	Dec. 20-26 Dec. 27-Jan. 2 Dec. 21-Jan. 10 Nov. 29-Dec. 5 do.	7 5 1	i	Including municipalities in Federal District.  Do.  Outbreak in one locality.  Do.					

## Reports Received from December 26, 1925, to January 22, 1926 $^{\rm 1}$

#### CHOLERA

Place	Date	Cases	Deaths	Remarks
India. Calcutta. Madras. Rangoon. Japan Philippine Islands: Manila. Province— Bulacan. Pampanga Rizal Russia. Siam:	Nov. 1-28. Nov. 15-Dec. 5. Nov. 8-21. Nov. 8-21. Nov. 9-22. Oct. 18-Nov. 7. Nov. 1-7. Sept. 27-Oct. 24. May-June.	101 45 3 121 4 92 1 70	89 18 3 3 64 1 21	Oct. 18-Nov. 7, 1925: Cases, 4, 720; deaths, 2,749.
Bangkok	Oct. 4-31 Nov. 1-14	60 48	30 38	Infection stated to have been imported on vessel.
On vessel: Steamship	Oet. 3	9		Arrived at Bangkok, Siam; a cases in coolie passengers.

#### PLAGUE

Brazil: Bahia	Nov. 8-14	2		
Santos British East Africa:	Dec. 8-21		2	
Kenya— Kisumu	Nov. 22-28		1	
Uganda Protectorate Canary Islands:	September, 1925	103	85	
Santa Oruz de Teneriffe Ceylon:	Dec. 18	2		
Colombo	Nov. 15-28	- 3	3	
China: Nanking	Nov. 15-Dec. 5			Pr

Prevalent

¹ From medical efficers of the Public Health Service, American consuls, and other sources.

# CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER—Continued Reports Received from December 26, 1925, to January 22, 1926—Continued

#### PLAGUE-Continued

Place	Date	Cases	Deaths	Remarks
Ecuador: Guayaquil	Nov. 1-Dec. 15	15	8	Rats taken, Nov. 1-Dec. 15, 1925;
			_	36,576; rats found infected, 214.
Egypt Beni Suef	Nov. 18, 1925	ī	1	Jan. 1-Dec. 9, 1925; Cases, 138. Corresponding period, 1924;
Favoum Province	Dec. 3-9	î	i	Cases, 365.
Greece:	200.0 0111111111111111111111111111111111		_	Casca, 600.
Athens	Nov. 1-30	18	4	Including Piræus.
Patras	Nov. 13	1		
India				Oct. 18-Nov. 7, 1925: Cases, 3,753;
Karachi	Nov. 1-14	3	2	deaths, 2,476.
Madras	Oct. 25-Nov. 7	75	41	
Rangoon	Oct. 25-Nov. 21	15	9	
Java: Batavia	Oct. 24-Nov. 6	94	00	D'-
Do		136	89 128	Province.
Cheribon	Sept. 27-Oct. 17		166	
Djokjakarta	Nov. 9		100	Epidemic in one locality.
Pekalongan	Sept. 27-Oct. 17		42	rapidemic in one locality.
Soerabaya	Oct. 11-Nov. 14	27	27	
Tegal	Sept. 27-Oct. 17	6	-6	
Madagascar:	1		ŭ	
Province—				
Itasy	Sept. 16-Oct. 31	20	20	
Moramanga	do	17	17	
Tananarive	do	174	159	
Town-		_		
Fort Dauphin		5	2	
Tamatave (port)		3	2	
Do Tananarive	Oct. 16-31	4	4	
Mauritius Island	Sept. 16-30 Sept. 20-Oct. 17	4 2 5	2 5	
Russia	May-June		, ,	1
Senegal	September, 1925		12	i
Siam.	Aug. 23-Sept. 5		20	
Bangkok	Nov. 15-21	2	2	-
Syria:	1	-	1	1
Beirut	Nov. 11-20	1		
Union of South Africa:		]		1
Cape Province-		l	1	1
Steynsburg district	Nov. 15-21	1	l	Native. On farm.

#### SMALLPOX

	,			
Algeria:	Nov. 21-Dec. 10	58		,
Arabia:	2.02. 200, 2022			
Aden	Nov. 29-Dec. 5	1		Imported.
Rosario	October, 1925		1 1	
Brazil:	OCUODOI, 1020		1	
Rio de Janeiro	Nov. 1-28	134	72	
British East Africa:				
Kenya—		-	1	
Mombasa	Nov. 15-28	9	3	From mainland; Nov. 22-28,
1 to 1 to 1		-		contact cases.
Uganda Protectorate	Sept. 1-30	7	4	
British South Africa. Southern Rhodesia	Nov. 13-19		}	NT-45m-
Canada	1404. 19-18	1		Native.
Canada		*******		Sept. 13-Jan. 2: In seven prov- inces, 186 cases.
Alberta-		Ì	i i	111085, 100 Cases.
Calgary	Dec. 13-19	1	1	From Drumheller, vicinity of
	200. 20 2022222	•		Calgary.
Manitoba-	1			
Winnipeg	do	2		
New Brunswick—		į i		
Northumberland	Dec. 6-13	1		`
Ontario				December, 1925: Cases, 32;
Ottawa	Dec. 6-12	2		deaths, 1. Occurring in 15
Toronto	Dec. 27-Jan. 2	1	1	localities.

## CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER—Continued Reports Received from December 26, 1925, to January 22, 1926—Continued

### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Dhina:				
Amoy	Oct. 25-Nov. 21			Present.
Antung Chungking	Dec. 7-13	1		_
Chungking	Nov. 15-21			<u>D</u> o.
Foochow	Nov. 1-21			Do.
Hankow	Nov. 14-21	3		
Manchuria-		_		
An-shan	Dec. 6-12 Oct. 19-Nov. 29 Oct. 24-Nov. 15	.1		
Dairen	Oct. 19-Nov. 29	35	8	
Mukden	Oct. 24-Nov. 15	1 2		
Tieh-ling	do	Z		<b>n</b> -
Nanking.	Nov. 21-Dec. 5 Oct. 25-Dec. 5	13	14	Do.
Shanghai	Nov. 22-Dec. 5	13	14	Do.
Swatow	Nov. 1-7			10.
Tientsin	TAOA. T-1	1		
Egypt:	Dec. 3-9	1	1	
Alexandria	Dec. 3-9	1		September, 1925: Cases, 25.
France				September, 1925. Cases, 25.
Great Britain:	Nov. 15-Dec. 19	612	1	
England and Wales	Nov. 29-Dec. 19	20		
Hull Newcastle-on-Tyne	40 V. 20-1760. 18			
The Weastle-Oil-Tylle	Nov. 22-Dec. 12	6 7		
Sheffield	1107. 22-100. 12	1		Oct. 1-31, 1925: Cases, 16.
Greece	Nov. 1-30	17	1	Ott. 1-01, 1920. Cases, 10.
India	1101.1-00	1.		Oct. 18-Nov. 7, 1925: Cases
	Nov. 8-28	12	7	Oct. 18-Nov. 7, 1925: Cases 3, 457; deaths, 774.
Bombay	do	15	9	0, 201, QCauss, 112.
Calcutta	Nov. 1-21	23	, ,	i
Karachi	Nov 20 Dec 5	4	2	
Do	Nov. 29-Dec. 5 Nov. 15-Dec. 5	6	2	1
Madras	Oct. 25-Nov. 21	2	-	į
	001.20-1404.21	1 -		Sept. 6-19, 1925: Cases, 41
Iraq Bagdad	Nov. 1-14	4		doothe 24
Daguad	Nov. 22-Dec. 5	9	9	deaths, 24.
Do	Nov. 22-Dec. 5	9	9	1 mm 0 Comt 90 1005, Conce 00
Italy	Oct. 12-25			Aug. 2-Sept. 30, 1925: Cases, 26
Rome	. Oct. 12-25	1		•
Japan: Taiwan	Nov. 11-20	1	1	1
Java:	1107.11-20	1 -		1
Batavia	Oct. 24-30	1 1	ŀ	
Do	Nov. 14-27	5		Province and city.
Kraksaan	Oct. 11-17	111		1 2 10 1 1 10 0 0 1 1 1 1
Malang	do	2		1
North Bantam	Oct. 4-17 Oct. 11-17	4		`}
Probolingo	Oct. 11-17	Ī		7
Soerabaya	Oct. 11-Nov. 14	301	45	
South Bantam	do	i		1
Tegal	Oct. 4-10	وَ ا	1	1
Malta	November, 1925	14		1
Mexico				July-August, 1925; Deaths, 90
Aguascalientes	Dec. 13-26 Dec. 1-31	4	2	
Durango	Dec. 1-31		1	1
Guadalajara	.l Dec. 29-Jan. 4			}
Guadalajara Mexico City	.i Nov. 28-Dec. 5	. 1	J	
Torreon	Nov. 1-30	3	. 15	1
Persia:	}	1	]	}
Teheran	. July 23-Aug, 23	.1	. 68	
Peru:	1	]	1	į.
Arequipa	Oct. 1-31		. 1	1
Portugal:		1	1 -	
Lisbon	Oct. 4-31	. 124		
Do	Nov. 16-Dec. 6		. 31	
Do	Nov. 14-Dec. 19	179		
Oporto	Nov. 16-Dec. 6 Nov. 14-Dec. 19 Nov. 22-Dec. 5	ı i		1
Russia				May-June, 1925: Cases, 1,336.
Siam				July 12-Sept. 5, 1925: Cases, 2
	1	1	1	deaths, 6.
Spain:	1	i	i	1
Malaga	Nov. 29-Dec. 5		_ 2	1
Switzerland			1	June 28-Oct. 24, 1925: Cases, 3
Lucerne	Oct, 1-31	6		
Tunisia:		٦ ٣		•
			1	
Tonis	Nov. 21-30	_  2		1

# CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER—Continued Reports Received from December 26, 1925, to January 22, 1926—Continued TYPHUS FEVER

Place	Date	Cases	Deaths	Remarks
Algeria: Algiers	October, November.	3		
Argentina: Rosario	Oct. 1-31	1		
Valparaiso			1	
AntungEgypt:	Nov. 29-Dec. 6	4	1	
Port Said Finland	Nov. 19-25	1		October, 1925: One case.
Greece: Athens Latvia Lithuania	October, 1925	11 2	2	September, 1925: Cases, 8; deaths.
Mexico				July-August, 1925; deaths, 65.
Aguascalientes Durango Guadalajara Mexico City Torreon	Dec. 1-31 Dec. 8-Jan. 4 Nov. 22-Dec. 19	150	1 3	Including municipalities in Federal district.
Palestine: Jaffa Nazareth Safad Tel-Aviv	Nov. 3-9 Nov. 24-30	ī		
Peru: Arequipa Poland Rumania			2 5	July, 1925: Cases, 74; deaths, 9. May-June, 1925: Cases, 7,609.
Russia Union of South Africa				May-June, 1925: Cases, 7,609. October 1-31, 1925: Cases, 88; deaths, 7 (colored); cases, 7
Cape ProvinceDo	Oct. 1-31 Nov. 8-14			(European population). Colored. Outbreaks in two districts.
Natal Orange Free State Do	Oct., 1925 do Nov. 1–7	1 23	1	Do. Do. Outbreaks.
Transvaal			1	

### TREASURY DEPARTMEN

# PUBLIC HEALTH REPORTS

ISSUED WEEKLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

Volume 41 :: :: Number 6
FEBRUARY 5 - 1926

### = SPECIAL ARTICLES=

Experiments Using Brewers' Yeast to Supplement a Deficient Diet

The Rate of Deoxygenation of Polluted Waters

Deaths from Pneumonia and Influenza in large cities



WASHINGTON GOVERNMENT PRINTING OFFICE 1926

### UNITED STATES PUBLIC HEALTH SERVICE

Hugh S. Cumming, Surgeon General

#### DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg. Gen. B. J. LLOYD. Chief of Division

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### PUBLIC HEALTH REPORTS

VOL. 41 FEBRUARY 5, 1926

No. 6

### SOME NUTRITION EXPERIMENTS WITH BREWERS' YEAST

With Especial Reference to its Value in Supplementing Certain Deficiencies in Experimental Rations

By Maurice I. Smith, Pharmacologist, and E. G. Hendrick, Laboratory Assistant, Division of Pharmacology, Hygienic Laboratory, United States Public Health Service

In the course of an investigation on the influence of dietary deficiencies on experimental tuberculosis in the albino rat it was noted that a diet composed of 40 per cent rolled cats (6 per cent protein) plus 10 per cent purified casein supplemented with fat soluble A and inorganic salts failed to produce normal growth, such as is obtained when the rat is maintained on a synthetic diet of 16 to 18 per cent purified casein supplemented with fat soluble A, inorganic salts, and vitamin B.

McCollum, Simmonds, and Pitz, in 1917 (1) examined the dietary properties of the oat kernel and found the quality of its protein to be inferior to that of other cereal grains. They obtained better results by supplementing the oat protein with casein or with gelatin, though growth on such mixtures was still below normal.

The results we obtained with the oat-casein ration 1 which was employed in the work referred to above (2) clearly indicated that it was lacking in some essential factor. Growth on this ration was decidedly subnormal. It was suspected that the ration did not contain a sufficient amount of the water-soluble factor. Addition of 2 per cent dried brewers' yeast to the ration, replacing an equivalent amount of starch, gave, indeed, a much better growth curve, with less individual variation. It was not clear whether the improvement was due to the yeast protein, the water-soluble vitamin, or to some other unknown factor.

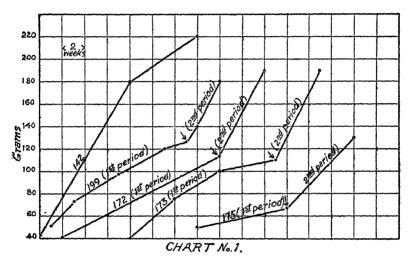
In the present work this observation was extended with a view to determining the nature of the oat deficiency and the character of the yeast constituent that is capable of correcting this deficiency.

Per	cent
Rolled oats	40.0
Purified casein	10.0
NaCl	1.0
CaC O ₂	1.5
Butterfat	10.0
Starch	37. 5

100.0

The experiments were carried out upon carefully selected rats from our own colony, bred and raised under standard conditions. Young males, weighing 40 to 50 grams, and about 4 weeks of age, were placed on the respective diets in groups of five or six animals each. The rations were made up by mixing intimately the various constituents and fed ad libitum. The animals were weighed once a week. The curves in the charts represent the average weights of the corresponding groups.

When rats of the above description are placed on an adequate synthetic diet, the composition of which is indicated in Table 1 under ration No. 142, good uniform growth results, which, for pur-



poses of comparison, may be regarded as normal. (See curve 142, Chart 1.)

A ration in which the oat kernel furnished all the protein (14 per cent), and supplemented with inorganic salts and vitamin A, failed to produce normal growth, as shown in the first period of curve 199 of Chart 1.

The results were no better when the protein in the oat ration was increased to 16 and 18 per cent, part of which was furnished in the form of casein or gelatin, as shown in the first periods of curves 172, 173, and 175 (Chart 1). It is evident, therefore, that neither casein nor gelatin is capable of supplementing satisfactorily the oat deficiency.

TABLE	1.—Showing	composition	of	rations	used	for	the	groups	indicated	in the
	-	curves	oj	* Charts	1 and	2				

Ration	Rolled oats	Casein 1	Gelatin	Salt mixture 185°2	Dried brew- er's yeast	Autoclaved yeast	Yeast protein	Butterfat 1	Olive oil	Naci	CaCOs	Starch
142	92. 5 86. 5 40. 0 40. 0 80. 0 40. 0 40. 0 40. 0 80. 0 80. 0 80. 0 80. 0 80. 0 80. 0 80. 0	12.0 9.0 10.0 10.0 10.0 10.0	10. 0	4.0	5. 0 6. 0 8. 0 5. 0 6. 0	5. 0	6.0	55.55.55.55.55.55.55.55.55.55.55.55.55.	5. 0 5. 5. 5. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	1. 0 1. 0 1. 0 1. 0 1. 0 1. 0 1. 0 1. 0	1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	63. 0 35. 5 32. 5 36. 0 31. 0 32. 5 32. 5 1. 5 1. 5 1. 5 1. 5 1. 5

¹ Purified by the method of McCellum et al. (3). ² McCollum and Davis: Jour. Biol. Chem., 1915, 23, 235.

The addition of 5 to 6 per cent dried brewers' yeast to the oat ration produced a normal growth curve, irrespective of whether the ration contained casein, gelatin, or neither. This is shown in curves 176, 195, and 192, Chart 2. It is clear, therefore, that dried brewers' yeast satisfactorily supplements the oat kernel. The same is evident from the results of the second period of feeding of groups 199, 172, 173, Chart 1, and 191 of Chart 2, when 6 per cent yeast was either added to the oat-casein mixture or entirely replaced the casein constituent of the diet, or when it replaced an equivalent amount of oats.

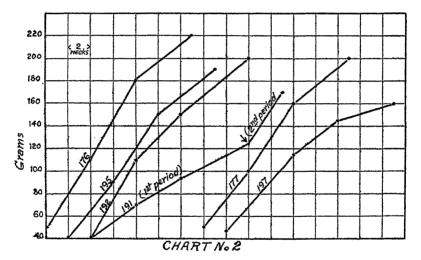
It should be noted here that the suggestion that the oat kernel contains a toxic substance which might be injurious if fed in large amounts (1) is untenable, for as much as 80 per cent of oats fed in a ration supplemented with 6 per cent yeast, inorganic salts, and vitamin A, produced a normal growth curve. (See curve 192, Chart 2.)

A consideration of the results obtained thus far led us to inquire into the factor or factors present in dried brewers' yeast capable of supplementing the oat deficiency. Though the oat kernel is known to contain liberal amounts of vitamin B (1), the possibility suggested itself that the level at which oats were fed in rations 172, 173, or 175 might not furnish this vitamin in adequate amounts. To test this possibility a quantity of dried brewers' yeast was autoclaved for six hours at 15-pound pressure, which procedure completely destroyed its vitamin B content, as shown by repeated tests on rats, and this material was fed at a 5 per cent level to group 177 (Chart 2) and te

February 5, 1926 204

group 175 (Chart 1) during the second period of feeding. The results demonstrate that autoclaving brewers' yeast, though destroying its vitamin B content, does not impair its efficacy in supplementing the oat deficiency. The oat kernel is therefore not deficient in vitamin B, even if fed at a level of 40 per cent, but is deficient in some other factor, a factor which is present in brewers' yeast and which withstands prolonged autoclaving.

The possibility that the oat protein is deficient in some essential amino acid which is furnished in brewers' yeast suggested itself. It must be admitted, however, that on a priori grounds such a possibility is very remote; for, from what we know of the chemistry of the oat protein, it contains very liberal amounts of the essential amino acids, cystin, lysin, histidine, and arginine (4). There appears to be no definite data on its tryptophane content; but that this



can not be the limiting factor is shown by the fact that casein protein containing 2 per cent tryptophane (5) does not supplement oats even if fed at 10 and 12 per cent levels, while yeast with a tryptophane content of only 0.5 per cent (5) supplements it admirably when fed at 6 per cent level. Similar considerations exclude tyrosine and glutaminic acid as possible limiting factors. The matter was further put to test by feeding yeast protein 2 at a 6 per cent level along with 80 per cent rolled oats in a ration similar to that of 192 (ration 234). The animals showed a decidedly subnormal growth after a period of five weeks, the curve being almost exactly the same as that of 191. Upon replacing the 6 per cent yeast protein

² I am indebted for this yeast fraction to Dr. A. Seidell, of this laboratory. It consisted of the insoluble product obtained by diluting fresh brewers' yeast with about an equal volume of water, heating to 90° C., filtering, and drying.

with 6 per cent autoclaved yeast (ration 234, second period), growth was resumed and proceeded in a normal manner.

The fact that the oat protein and the casein protein do not supplement each other and that they are both adequately supplemented by brewers' yeast clearly indicates that they are both lacking in the same essential factor. In other words, a ration in which purified casein is the only source of protein, besides having to be supplemented with vitamin B and the other known essential factors, must be also supplemented with that unknown factor present in yeast in order to make it adequate. This factor, as pointed out earlier, withstands prolonged autoclaving.

In the light of these experiments it is hardly possible to regard casein protein in any way superior to oat protein. This is shown in a very striking manner by comparing curves 197 and 192. The diet in the former case consisted of 12 per cent casein protein, that in the latter of 12 per cent oat protein, both being supplemented with 6 per cent yeast. The growth curve on the oat protein diet was better. If one now compares curve 197 with 172 or 173 it is quite apparent that casein is better supplemented by 6 per cent yeast (about 3 per cent protein) than by 40 per cent oats (6 per cent protein), in spite of the fact that this amount of oats furnishes all the necessary vitamin B, as is readily seen from curve 177.

Further evidence of the correctness of the above view was secured from some experiments carried out in cooperation with Doctor Seidell while testing the activity of some of his vitamin B fractions.

Young rats weighing from 30 to 35 grams each were placed on a ration consisting of the following:

<u></u>		cent
Casein (purified)		18
Salt mixture 185		
2 per cent vitamin B picrate (6) in milk sugar		1
Cod liver oil		2
Olive oil		
Starch		
	-	
		กกา

The rats consumed from 1 to 2 milligrams of the picrate per day, but failed to show any gain in weight during a period of three weeks. At the end of this time 5 per cent autoclaved yeast was added to the above ration, replacing an equivalent amount of starch, when the animals promptly began gaining in weight. It should be added that the same ration, including the autoclaved yeast but without the picrate, when fed to animals of about the same weight and age, resulted in a gradual loss in weight, and death within three to four weeks.

In another series of experiments a number of rats that had attained a weight of 90 to 110 grams on diet 142 (adequate in every respect) were placed upon a similar diet from which the yeast was omitted. In three weeks their weights declined to from 75 to 90 grams. Nine groups of animals were then selected, three in each, placed in individual cages, and fed separately from the basal ration graded amounts of a vitamin B fraction ³ daily, with and without the daily addition of 500 milligrams autoclaved yeast. The results of this test, which lasted 11 days, may be summarized in the following:

	Gain per re	it in 11 days		Gain per rat in 11 days			
Milligrams vitamin B fraction fed daily	Without autoclaved yeast	With autoclaved yeast	Milligrams vitamin B fraction fed daily	Without autoclayed yeast	With autoclayed yeast		
25	20 14 3	37 27	2.5	0 -7	-3		

The effect produced with the 2.5 and 5 milligrams of the yeast vitamin fraction when fed in combination with the autoclaved yeast is approximately the same as that obtained from the feeding of 200 and 500 milligrams whole dried brewers' yeast, respectively, under the same conditions. It would thus seem that this particular vitamin fraction is about one hundred times as active as whole dried brewers' yeast in its vitamin B content. Since fair growth also resulted from feeding of this fraction alone in doses of upwards of 115 milligrams, it would appear that some of the unrecognized factor in yeast is carried along with the vitamin B factor in this fraction.

#### CONCLUSIONS

Dried brewers' yeast contains some factor essential in nutr other than vitamin B. This factor withstands autoclaving at pounds pressure for six hours. It is not in the heat and acid copy lable yeast protein. It is capable of adequately supplementary a ration in which the oat kernel is the sole source of protein arguitamin B.

Evidence is advanced to show that a synthetic ration with casein as the sole source of protein must be supplemented with this unrecognized factor present in yeast, besides vitamin B, in order to make it adequate.

When properly supplemented, oat protein appears to be just as satisfactory in the nutrition of the rat as is casein protein.

²I am indebted to Doctor Seidell for this vitamin fraction, a description of which will soon appear is his publication.

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### THE RATE OF DEOXYGENATION OF POLLUTED WATERS1

By EMERY J. THERIAULT, Associate Chemist, U. S. Public Health Service

The biochemical oxygen demand test to be discussed in this paper, although at present it enjoys a certain measure of renewed interest, is by no means new. The earliest record of such a procedure is probably to be found in a report published in 1870 by a British Rivers Pollution Commission. In France, oxygen demand determinations were made as long ago as 1885 in a study of the pollution of the Seine. In Germany, extensive series of experiments were conducted on the test from 1900 to 1911. In the United States, a modified procedure appears to have been used in the early experiments at the Lawrence Experiment Station, although it is only since 1915 that the method now in use has been more or less generally adopted.

It is significant both of the intrinsic merit of the biochemical oxygen demand test and, it must be admitted, of the numerous difficulties which arise in its practical application that, in a recent bibliographical review, no less than 150 references were found which dealt directly with the subject. The consensus of opinion appears to be that the test is valuable. In fact, for the purposes of stream-pollution studies, it is frequently the only chemical procedure which can be used to advantage. As a measure of the relative strength of various organic wastes and as a guide in estimating the efficiency of particular methods of treatment, the test also appears to possess decided advantages over the usual chemical procedures.

### GENERAL CONSIDERATIONS

As regards the theory underlying the test, it is a well-established fact that a polluted water containing bacteria, if exposed to air, tends to become completely purified. It has been repeatedly demon-

¹ The second of four papers of a symposium on stream pollution presented at the meeting of the sanitary engineering division of the American Society of Civil Engineers at Cincinnati, Ohio, Apr. 23, 1925, and published in the Proceedings of the Society, Vol. LI, No. 9, November, 1925. The first paper. "A review of the work of the United States Public Health Service in investigation of stream pollution," by W. H. Frost, was published in Public Health Reports for January 15, 1926.

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strated that definite quantities of dissolved oxygen are absorbed during this self-purification process. It follows that the quantity of oxygen required for the complete stabilization of a polluted water may be taken as a measure of its organic matter content. In the simplest case, two glass-stoppered bottles are completely filled with the sample under examination. The initial dissolved oxygen content is found by analyzing one of these subsamples at the beginning of the test. The other subsample is placed in a constant temperature chamber at 20° C. After an arbitrarily selected time, preferably five days, the sample is removed from the incubator and its oxygen content is redetermined. If bacteria and organic matter were present, a decrease in the oxygen content is invariably observed. This decrease is then reported as the five-day oxygen demand of the sample at 20° C.

A limitation of this test as outlined lies in the fact that the saturation value for the dissolved oxygen content of water at 20° C. is only 9 parts per million, corresponding to the five-day oxygen demand of a highly purified effluent or a highly polluted water. With sewage effluents of average quality, a five-day oxygen demand value of about 20 parts per million may be expected. Before the test can be applied it is necessary, therefore, to dilute such effluents with 5 or 10 volumes of fully acrated distilled water or tap water of good quality. For raw sewages, the five-day oxygen demand is generally greater than 100 parts per million, so that the samples must be diluted about fifty times in order to provide a sufficient supply of oxygen throughout the course of the test. Tannery and abattoir wastes possess oxygen demand values which range from 1,000 to 10,000 parts per million. With unusual trade wastes, five-day oxygen demand values of 50,000 parts per million have been obtained. At the other extreme, the 5-day oxygen demand of good tap water is about 0.5 part per million.

Various other methods of procedure have been proposed for determining the oxygen requirements of heavily polluted waters without resorting to dilution. The "excess-oxygen" method just described, inasmuch as it depends on the volumetric determination of dissolved oxygen, using ordinary glass-stoppered bottles, possesses the merit of extreme simplicity. Extensive series of experiments conducted at the Cincinnati Laboratory of the United States Public Health Service have amply demonstrated that the precision attainable leaves little to be desired even if it is necessary to dilute the samples before conducting the test. With suitable laboratory facilities, the dilution technique is simple.

A more serious limitation, and a limitation which is inherent in any method of procedure, is the necessity for interpreting the results in the light of time and temperature relationships. Owing to the fact

that the rate of absorption of oxygen by a polluted water is exceedingly slow, it is generally desirable to extend the incubation period over several days. Again, as the reaction is purely biochemical, the temperature at which the test is conducted must be carefully controlled. In order to correlate the laboratory results with the everchanging time of flow and temperature conditions of a stream, it is necessary, therefore, to obtain reasonably accurate formulas by which the oxygen demand of a sample after any interval of time at any specified temperature may be calculated from the values obtained under standardized conditions.

The experiments herein described were undertaken primarily for the purpose of confirming the validity of the various time and temperature correction formulas which have thus far been proposed. The discussion will be limited to the formulas developed in the course of the Ohio River investigation. These experiments have also demonstrated that factors other than time and temperature must be considered before a valid interpretation of the highly consistent results obtained with the "excess-oxygen" method can be made. In particular, the condition of a sample with respect to its state of oxidation and, possibly, the nature of the microorganisms present both exert a marked influence on the magnitude of the observed oxygen demand values.

### EXPERIMENTAL PROCEDURE

For the purpose of securing representative samples, a large vessel was first filled with Ohio River water or, in some instances, with sewage suitably diluted. After the sample had been thoroughly mixed, it was siphoned into bottles with capacities of 350 cubic centimeters. The initial oxygen content was then determined and the remaining subsamples were incubated at 9°, 20°, or 30° C. In the course of experiments, which have extended somewhat more than a year, 12 separate series of observations have been made. In most cases the course of the deoxygenation was followed for at least one month. As a rule the experiments were conducted in duplicate, and in several instances comparative data were obtained at three different temperatures.

### PRECISION OF BASE DATA

The agreement between duplicate samples was excellent, even when the incubation period extended over several months. In one series of experiments, in which a large number of subsamples were titrated after an incubation period of 96 days at 20° C., the average deviation from the mean was found to be less than 0.2 part per million. The findings in this respect are of considerable analytical interest.

² H. W. Streeter and E. B. Phelps: Public Health Bulletin No.146, U. S. Public Health Service.

### GENERAL COURSE OF DEOXYGENATION CURVE

Given the precision of the base data, the next step has been to plot the observed average oxygen demand values against the period of incubation. The type of curve obtained in a typical series of observations is illustrated by Figure 1. The data plotted in this chart are probably unique in so far as they all refer to the same sample incubated at different temperatures over prolonged periods. It is also to be noted that the oxygen demand determinations were made at relatively short intervals, so that the general course of the deoxygenation curve is reasonably well defined. At 9° C. (lower curve) there was a slight lag in the establishment of bacterial equi-

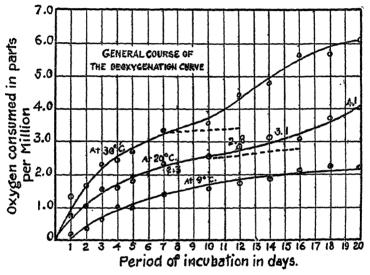


Fig. 1

librium. In other respects, however, there is a striking parallelism between the results obtained at different temperatures.

Considering only the results obtained at 20° C. (middle curve), it is evident that the rate of deoxygenation decreased very uniformly during the first 9 or 10 days. Relatively small quantities of oxygen were absorbed during the next 5 or 6 days. After the sixteenth day, the rate of deoxygenation suffered a marked acceleration. It is also noteworthy that, contrary to a generally accepted notion, appreciable quantities of dissolved oxygen continued to be absorbed even after the twentieth day. As the same phenomenon has been observed with fully aerated samples, this secondary increase in the rate of deoxygenation can hardly be ascribed to the approaching exhaustion of dissolved oxygen. In fact, within wide limits, the rate of deoxygenation is quite independent of the quantity of dissolved oxygen present.

The evidence accumulated thus far is very favorable to a view emphasized by Adeney and other British experimenters, namely, that under aerobic conditions the stabilization of organic matter proceeds in two distinct and strictly consecutive stages—the carbonaceous matter, etc., is first oxidized; then, and only then, does nitrification set in. The second point of inflection on the deoxygenation curve, therefore, marks the onset of the nitrification stage. will be convenient to discuss these two distinct stages separately.

### RATE OF DEOXYGENATION FORMULA

Considering only the average oxygen demand values corresponding to the first or carbon-oxidation stage, an attempt was next made to determine whether these results conformed with reasonable accuracy to a formula proposed some years ago by Phelps. The formula in question is based on the assumption that the rate of deoxygenation at any instant is directly proportional to the amount of organic matter present in a sample. In the differential notation:

Rate of deoxygenation = 
$$\frac{d(L_a - L)}{dt} = \frac{-dL}{dt} = K'L$$
...(1)

in which,

 $L_a$  = oxygen absorbed during the first stage.

L=oxygen requirement of the sample at the time, t.

K'=a constant at a given temperature.

The integration of this expression leads directly to the equation:

$$\log \frac{L_a}{L} = \log \frac{L_a}{L_a - X} = Kt \qquad (2)$$

in which,

X = oxygen absorbed in t days (the value generally reported as the oxygen demand of the sample).

K=0.4343 K'= the deoxygenation constant.

Solving for X in equation (2), the following expression is obtained:

$$X = L_a (1 - 10^{-Kt})$$
 (3)

By the aid of tables giving the value of the term  $(1-10^{-Rt})$ , the validity of the Phelps formula may readily be tested. It is only necessary to observe whether a value of  $L_a$  exists which satisfies the condition imposed by equation (3). The agreement between the observed and the computed values is represented graphically by the data plotted in Figure 2, where the average values obtained in 12 separate series of observations have been recorded. In order to place all values on a comparable basis, and for the sake of avoiding a multiplicity of charts, the results have been plotted, not in parts per million, but as a percentage of the oxygen absorbed during the first stage of the deoxygenation. At each temperature the line drawn through these average results is simply the graph of the expression:

$$X = L_{\alpha} (1 - 10^{-Kt})$$

For periods of incubation of less than 8 days at 30° C., 10 days at 20° C., or 15 days at 9° C., the agreement between the observed and the computed percentage values is excellent.

### TEMPERATURE CONVERSION FORMULAS

(a) The value of K at different temperatures.—It is also to be noted that in plotting the theoretical curves the value of K was computed by the equation:

 $K_T = K_{20} (1.047^{T-20})$  .... (4)

in which,

 $K_T$ = the deoxygenation constant at  $T^{\circ}$  C.  $K_{20}$ = the deoxygenation constant at 20° C. = 0.100.

The indication is that, in the interval from 9° to 30° C., the deoxygenation constant is accurately defined in terms of equation (4).

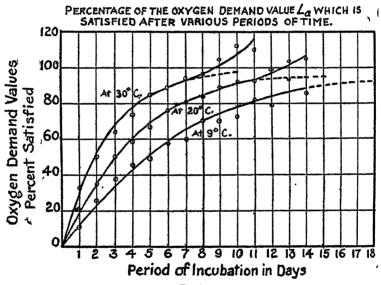


Fig. 2

(b) The value of  $L_a$  at different temperatures.—One further point to be considered in connection with Figure 2 is the value of  $L_a$  at different temperatures. Denoting the value of  $L_a$  at 20° C. by 100, the value of  $L_a$  at 9° C. becomes  $78 \pm 5$ . Similarly, the relative value of  $L_a$  at 30° C. is  $120 \pm 7$ . These values may be represented empirically by the equation:

 $(L_a)_T = (L_a)_{20} (0.02 T + 0.60)$ ....(5)

in which,

 $(L_a)_T$  = value of  $L_a$  at  $T^{\circ}$  C.  $(L_a)_{20}$  = value of  $L_a$  at  $20^{\circ}$  C.

The failure to correct for this variation in the oxidizability of a sample with a change in the temperature of incubation does not lead to serious

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error when the temperature differences are small. In extreme cases a suitable correction can readily be applied.

### APPLICABILITY OF FORMULAS TO STREAM-POLLUTION PROBLEMS

Within certain limits, therefore, the possibility exists of converting an oxygen value obtained at any temperature over any period of incubation into terms of the oxygen demand value which would have been obtained under any other given set of conditions. It is to be borne in mind, however, that the applicability of the formulas is restricted to heavily polluted waters, such as raw river water or recently diluted sewage. By inspection of the data plotted on Figure 1, it is obvious that an entirely different type of deoxygenation curve would be obtained if samples in a more advanced state of oxidation were to be selected. As it is seldom necessary to consider periods of flow exceeding 5 or 10 days below a point of fresh pollution, these limitations are of little consequence in stream-pollution studies. On the whole it appears safe, therefore, to conclude that, when the various formulas discussed in this paper are applied to the average values corresponding to reasonably large groups of observations on recently polluted water, the cumulative error should not exceed 10 per cent. For the purposes of stream-pollution studies, this degree of precision is entirely satisfactory.

### APPLICABILITY OF FIVE-DAY OXYGEN DEMAND TEST TO SEWAGE TREATMENT PROBLEMS

From the foregoing discussion it may be inferred that for highly polluted waters the oxygen demand values obtained over relatively short periods of incubation possess a clear-cut significance, so that the interpretation of such results offers no difficulty. Attention will now be directed to samples which have reached a higher state of oxidation. The discussion will be conducted with particular reference to sewage-treatment problems.

Considering the data plotted in Figure 1, and assuming that the five-day oxygen demand of the sample at  $20^{\circ}$  C. had been determined only after a preliminary conditioning period of 7 days, corresponding to the relatively flat portion of the deoxygenation curve, the observed depletion would have been about (2.8-2.3)=0.5 part per million. However, if the examination had been delayed for 15 days, so that nitrification was about ready to start, the observed loss of oxygen would have been about (4.1-3.1)=1.0 part per million. Referred to a sewage effluent which had been diluted 50 times before conducting the test, the two oxygen demand values obtained would have been 25 or 50 parts per million, depending on the amount of preliminary purification which the sample had received. It is noteworthy

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that under these special conditions the five-day oxygen demand of the more highly oxidized sample was apparently twice as great as that of the same sample in a less highly purified state. In part the discrepancy arises from the fact that one set of values has been selected from the relatively flat portion of the deoxygenation curve (8 to 14 days at 20° ('.).

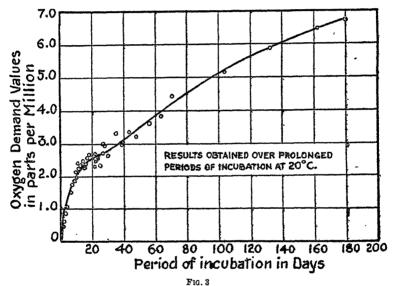
The findings in this respect have a direct bearing on the calculation of the percentage removal of organic matter effected by a treatment plant, and on similar problems in connection with the operation or the comparison of various types of treatment plants. The usual procedure is to base such calculations on the five-day oxygen demand value of the influent and effluent wastes. In the extreme case in question it is obvious that the percentage values obtained would stand in inverse relation to the purification actually accomplished. It is not inconceivable that a good measure of the efficiency commonly attributed to Imhoff tanks and similar treatment devices may be due to an effect of this nature. For filter effluents, however, the maximum effect produced by the abrupt change in the slope of the curve may generally be discounted, because the nitrification stage should be fully established when such samples are examined. possibility of error from this source is nevertheless to be borne in mind.

As regards the time required under laboratory conditions to effect the complete oxidation of the organic matter in a polluted water, definite conclusions can hardly be drawn. On the basis of nitrite, nitrate, and free ammonia determinations, it is probably safe to conclude that at 20° C. the oxidation of the purely nitrogenous impurity is virtually completed after 40 or 50 days. Appreciable quantities of dissolved oxygen, however, continue to be absorbed even after several months of incubation at 20° C. (See Fig. 3.) The absorption of oxygen beyond the sixtieth day is probably due to the slow oxidation of celluloselike materials. As it would be impractical to conduct routine tests over such extended periods, it is obviously necessary to conclude that the ultimate oxygen demand of a sample is an indeterminate quantity.

Continuing the discussion of the results derived over long periods of incubation, it appears that when a stage of oxidation has been reached corresponding to that which obtains when a sample of raw sewage is incubated for 30 days at 20° C., the deoxygenation curve is approximately a straight line. (See Figs. 1 and 3.) The five-day oxygen demand of a given type of waste, therefore, should be a constant when a sufficiently high degree of purification is reached. It follows that the percentage purification figures computed on the basis of the five-day oxygen demand test should also tend to be constant when samples in an advanced state of oxidation are examined.

The findings in this respect are in satisfactory accord with the direct observation that the removal of organic matter effected by a representative group of treatment plants was always approximately 90 per cent when partly nitrified effluents only were considered. In view of wide variations in the strength of the raw sewages, in the nature of the treatment devices, and in the methods of operation, this approximate constancy of the percentage purification values obtained was an unlooked-for result.

Finally, it need hardly be pointed out that a statement to the effect that the five-day oxygen demand of a sample is, say, 20 parts per million, is of little significance unless a great deal is known concerning the nature or, more precisely, the state of oxidation of the



sample. Thus, a five-day oxygen demand value of 20 parts per million could be referred, with equal reason, to the middle or relatively flat portion of the deoxygenation curve, corresponding to a highly polluted sample, or to the last portion when the nitrification stage has been virtually completed.

### CORRESPONDENCE BETWEEN ANALYTICAL DATA AND OBSERVED NATURAL CONDITIONS

The results thus far presented, although indicative of great uniformity, could hardly be referred to natural conditions without further supporting data. Evidence to the effect that the oxygen demand values obtained during the first stage of the oxidation are

² Sewage treatment in the United States. Public Health Bulletin No. 132, U. S. Public Health Service, p. 29.

directly related to the quantity of organic matter present is given in Table 1. Using the five-day oxygen demand of a raw sewage as a measure of its organic matter content, and given the contributing population and the total flow of sewage, the per capita contribution of organic matter has been computed for places where fairly accurate data were available. The average per capita oxygen requirement is 51.1 grams per day, with an average deviation from this figure of The high value obtained at Columbus, Ohio, is probably due to the presence of relatively large quantities of industrial wastes. Omitting the Columbus result, the average per capita oxygen demand is 48.8 ± 3.1 grams per day. The constancy of the per capita values is remarkable and leads to the conclusion that the five-day oxygen demand of a raw waste is directly proportional to the concentration of organic matter present. Moreover, it is apparent that the rate of deoxygenation of diluted raw sewage is not subject to extreme variations; otherwise, the per capita values derived with different sewages would not be consistent.

TABLE 1.—Per capila oxygen demand values
(Base data from Public Heilth Bulletin No. 132, p. 115.)

	R	esults, in pa	rts per millio	n ·
Locality	Five-day oxygen demand actually observed	Per capita oxygen demand daily	Deviation from mean,	Deviation from mean, $d_2$
Alliance, Ohio. Baltimore, Md. Canton, Ohio. Columbus, Ohio. Fitchburg, Mass. Levington, Ky Roading, Pu Rochester, N Y.	213 190 155 144	45 6 45 1 51 6 67 6 51 6 48 5 45 1	5. 5 6 0 0 5 16 5 0 5 2 6 6 0 2 8	3 2 3 7 2 8 
A vetage ¹		51. 1 48 8	±5.0	1.8%

¹ To include all observations.

As regards the general course of the oxidation of organic matter under natural conditions, it is well established that, in sewage treatment, nitrification does not begin until considerable preliminary purification has been effected. Moreover, it has recently been demonstrated in experiments conducted at the New Jersey Agricultural Experiment Station that, even in a filter bed, the onset of the nitrification stage is sharply defined. In the Illinois River investigation, nitrification was not observed until a point far removed from the source of initial pollution had been reached. The

² Omitting the Columbus results.

exhaustive studies of the Royal Commission on Sewage Disposal of Great Britain also afford instances where the deoxygenation curve represented by Figure 1 was clearly reproduced in streams. Similar curves were also obtained using undiluted sewage. It appears reasonable to assume, therefore, that the phenomena observed in the laboratory actually correspond to natural conditions.

#### CONCLUSIONS

As a result of the foregoing, the following conclusions have been reached:

- 1. The Phelps formula holds with reasonable accuracy when applied to samples recently polluted with organic matter.
- 2. For periods of incubation of less than 10 days it is possible to refer the results obtained under standardized laboratory conditions to the actual times of flow and temperatures of a stream.
- 3. Under aerobic conditions the stabilization of organic matter apparently proceeds in two distinct stages.
- 4. The rate at which a polluted water is deoxygenated depends largely on the condition of the sample with respect to its state of oxidation.
- 5. It is necessary to exercise considerable caution in interpreting the results of analyses when the nitrification stage has almost been reached.
- 6. Absolute values for the purification accomplished by a treatment plant can not be obtained without resorting to protracted incubation.
- 7. A complete solution of the problem probably depends on the development of methods whereby the state of oxidation of a sample may be determined more readily.

### PNEUMONIA (ALL FORMS) AND INFLUENZA

DEATHS IN LARGE CITIES OF THE UNITED STATES DURING THE FIRST THREE WEEKS OF JANUARY, 1925 AND 1926

The following tables give the numbers of deaths from pneumonia (all forms) and influenza during the periods from January 3 to 23, 1926, and from January 4 to 24, 1925, in 72 large cities of the United States. The figures were taken from reports of the health officers of the cities.

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### PNEUMONIA (ALL FORMS)

	Week ended					
	Jan. 10, 1925	Jan. 9, 1926	Jan. 17, 1925	Jan. 16, 1926	Jan. 24, 1925	Jan. 23, 1926
Atlanta Baltimore Birmingham Boston Bridgeport Bufialo Cambridge, Mass Camden Cambridge, Mass Canden Chicago Cincinnati Cleveland Columbus, Ohio Dallas Denver Detroit Duluth Elizabeth El Paso Erle Fall River Fall River Filint Fort Worth Grand Rapids Hartford Houston Indianapolis Kansas City, Kuns Kansas City, Kuns Kansas City, Kuns Kansas City, Kuns Kansas City, Kuns Kansas City Memphis Milwaukee Memphis Milwaukee Minneapolis Nashville Lowell Lyun New Bedford New Haven New Orleans New Orleans New Orleans New York Newark Norfolk Oakland Okiabema City Omaha Philadelphia Pittsburgh Portland, Oreg Providence Reading Richmond Rochester St. Paul Salt Lake City San Antonio San Diego Sernarcas Syracuse Tacoma Toledo	10 159 12 23 3 9 5 5 5 5 5 82 14 1 8 8 6 6 15 15 14 3 3 7 7 7 3 3 3 4 6 6 9 9 12 23 3 13 3 5 10 12 287 22 6 9 6 6 14 3 2 2 7 7 7 4 11 1 4 18 1 8 2 3 3 3 6	6 53 13 87 14 17 5 10 0 3 89 10 0 0 0 52 5 5 5 10 1 1 34 23 39 4 4 13 14 11 11 9 6 6 8 22 24 8 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8 22 4 6 6 8	27 56 88 27 4 18 4 6 7 86 16 41 17 88 8 2 12 11 4 17 25 6 4 12 20 20 5 11 14 53 7 7 10 26 280 20 5 11 14 53 7 7 10 4 4 4 4 6 6 7 7 7 7 7 4 4 6 6 6 6 6 6 6	12 12 88 88 209 66 120 48 4 4 100 121 1 2 8 8 8 209 66 120 2 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 149 188 400 3 5 5 7 120 111 121 48 1 3 3 1 1 1 24 15 33 10 3 3 1 19 9 9 6 6 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 156 133 300 6 12 1 12 27 7 58 21 11 12 23 39 4 5 2 7 7 7 7 1 2 1 2 2 7 7 7 7 7 7 1 2 1 2
Trenton Washington Waterbury Wilmington, Del Worcester Yorkers Youngstown	7 13 5 5 1 4 5	32 6 7 20	6 8 15 3 4 1 9	30 7 7 12	7 10 4 2 5 9	23 34 11 6 35 1 3 12

### INFLUENZA

			Week	ended—		
	Jan. 10, 1925	Jan 9, 1926	Jan. 17, 1925	Jan. 16, 1926	Jan. 24, 1925	Jan 23, 1926
Atlanta Baltimore Birmingham Boston Bridgeport	1 7 2 2 1	1 5 4 2 1	3 9 2 3 2	2 5 6 2 1	1 3 3 1	1 13 1
Buffalo	1 2 1 4	2 1 4	1	2 2	1 1 1 11	1 1 1 6
Cincinnati Cleveland Columbus, Ohio Dallas Denver	5 5 1 1	4 5 1 3 5	6 1 1 3	4 2 1 2 6	3 3 2 2 1	
Detroit	1 1	1 1	5	1 1 3	1 7 1	
Fall River Fint. Fort Worth Grand Rapids Hartford	1	1	1 1 1 1 1	2 1 5	1	
Houston Indianapolis Kansas City, Kans Kansas City, Mo Los Angeles	1 1 5 2	2 3 1	1 1 2	3	3 1 7 1	
Louisville Lowel Lyan Memphis Miwaukee	1	6 1	3 1	2 4 1	1 3 2	
Minmeapolis Naskville New Bedford New Havea New Orleais. New Orlea	2 5 19	1 3 6 21	2 1 6 19	3 8 17	1 3 1 9 24	 I
Newark Norfolk Oakland Oklahoma City Omaha	1	3		2	2 1	
Philadelphia Pittsburgh Portland, Greg Providence. Reading	9 5	6 3	11 4 2	9 3	9 1	
Richmond Rochester St. Paul Salt Lake City	1	1	1	1 1 2	4	
San Antonio San Diego San Francisco Schenectady Scranton	3	10 3	8 i	11	2 2	
Somerville. Springfield, Mass. Syracuse. Tacoma. Toledo. Trenton.	2	1	2	1	1 2	
Washington Waterbury Wilmington Del	3	2 2 1	4 1	2		
Worcester Yonkers Youngstown			2	i		

### DEATHS DURING WEEK ENDED JANUARY 23, 1926

Summary of information received by telegraph from industrial insurance companies for week ended January 23, 1926, and corresponding week of 1925. (From the Weekly Health Index, January 26, 1926, issued by the Burcau of the Census, Department of Commerce)

,,	Week ended Jun. 23, 1926	Corresponding week, 1925
Policies in force	62, 860, 526	58, 444, 053
Number of death claims		12, 053
Death claims per 1,000 policies in force, annual rate	11. 5	10. 8

Deaths from all causes in certain large cities of the United States during the week ended January 23, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, January 26, 1926, issued by the Bureau of the Census, Department of Commerce)

		ided Jan. 1926	Annual death rate per		under 1 ear	Infant mortality
City	Total deaths	Death rate 1	1,000 corre- sponding week, 1925	Week ended Jan 23, 1926	Corre- sponding week, 1925	week ended Jan. 23, 1926 2
Total (68 cities)	8, 289	14. 9	14. 2	914	942	8 74
Akron Albany 4	50 54	23. 9	18. 1	10 6	3	106 126
Atlanta	78	20.0	10.1	18	11	120
White	38		,	8		
Colored	40	(5) 18, 5		10		
Baltimore 4	283 229	18, 5	17.0	29 19	20	85
WhiteColored	54	(5)		10	ļ	68 162
Birmingham	73	18.5	15. 7	13	1	102
White	39	20.0		8	·	
Colored	34	(8)		5		
Boston	237	15.9	16.7	18	32	51
Bridgeport	43			9	4	153
BuffaloCambridge	160 29	15. 5 12. 6	12.3 21.4	18	19	75
Camden	39	15.8	17.8	1 7	7 9	17 118
Canton	26	12.8	12.3	4	4	89
Chicago	694	12.1	12.5	78	103	69
Cincinnati	137	17. 5	18.3	78 7	20	44
Cleveland	186	10.4	11.2	<b>2</b> 5	32	65
Columbus	88	16. 4	16.4	9	8	83.
Dalias	61 42	16.4	17.0	7	17	
WhiteColored	19	(5)		6 1		
Davton	32	9.6	9.6	5	2	79
Denver	66	12.3	18.6	10	13	
Des Moines	40	14.0	7.3	3	5	50
Detroit.	348	14.6	10.6	72	38	116
Duluth.	20	9.4	7.1	4	4	94
El Paso Erie	33 38	16.4	19.9	4	10 5	76
Fall River	37	15. 0	8.5	Ĝ	5	87
Flint	17	6.8	5. 2	4	ž	66
Fort Worth	28	9.6	9, 2	2	3	
White	22			2		
Colored	6	(5)		Ģ		
Grand Rapids	35 48	11.9 15.2	13. 2 19. 9	4 7	4 10	58
White	32	10.2	19, 9	4	10	
Colored	16	(8)				
Indianapolis	102	14.8	14.8	3 7 4	7	51
White	86					34
Colored	16	(4)		3		165
Jacksonville, Fla	52	25.8	17.4	5	2	109
WhiteColored	27 25	(b)		4		
Otoror	25	(4)		1	l	

¹ Annual rate per 1,000 population.

Annual rate pased on deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1924. Cities left blank are not in the registration area for births.

beaths for week ended Friday, Jan. 22, 1926.
Deaths for week ended Friday, Jan. 22, 1926.
In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentage of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Flouston 25, Kansas City, Kans. 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended January 23, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, January 26, 1926, issued by the Bureau of the Census, Department of Commerce)—Continued.

	Week en 23, 1	ded Jan. 1926	Annual death rate per	Deaths ye	Infant mortality rate	
City	Total deaths	Death rate	1,000 corre- sponding week, 1925	Week ended Jan. 23, 1926	Corre- sponding week, 1925	week ended Jan. 23, 1926
Jersey City Kansas City, Kans White	90	14.9	13. 9	12	10	85
Kansas City, Kans	25 15	11.2	14. 4	1	10	17 21
White Colored Kansas City, Mo Los Angeles. Lousville White Colored	10	(5)		0 9		0
Kansas City, Mo	94	13. 3	13.6	9	12	
Los Angeles	248 92	15. 9	14.0	25	28 5	69 60
White	76		11.0	7 6		60
Colored	16	(5)		1		63
	35 28 70	16. 5 14. 2	9.9 14 2	5 2	1	93
Lynn Memphis White Colored	70	20. 9	29. 0	12	1 8	J.
White	30			7		
Colored	31 117 102	(5) 12. 2		5	20	97
	117	12. 2 12. 5	10. 0 12. 9	10	20 19	- 56
Nashville 4	63	24. 1	16.8	5	19	
Minneapolis Nashville ⁴ White Colored New Bedford	39	l		21 10 5 3 2		
Colored	24 33	(5) 14. 4	10. 9	2 5		87
New Haven	48	14. 0	16. 0	0	5 5	0
Now Orleans	181	22.8	20.4	15	21	
White Colored	118			10		
Colored	63 1,689	(5) 15. 6	14. 2	5 176	160	7
New York Bronx Berough	207	12.4	11.3	12	13	4
Brooklyn Borough	589	13.9	13.4	12 66 77	13 59	6
Manhattan Borough	710	19.0	18. 2	77	73	8
Brooklyn Berough Brooklyn Berough Manhattan Berough Queens Berough Richmond Berough Newark, N. J	146	10.7 14.0	9.8	17	15 0	1 7
Newark, N. J	37 118	13.6	12.4 14.6	16	18	44 66 88 77 77
	39 23			1 1	3	1
White Celored Oakland Ojklahoma City	23	(4)		1 1		3
Oakland	16 73 23	(5) 15. 0	12.1	8	7	9
Oklahoma City	23			1	5	
	62	15.3 11.4	14. 5 14. 7	0 8 1 7 2	8 2	7
Paterson Philadelphia Pittsburgh Portland, Oreg Providence	31 603	15.9	14.8	69	54	8
Pittsburgh	176	14.5	19.0	19	32	8
Portland, Oreg	74	13.7 12.3	12.2	4	3	4
Richmond	176 74 63 75	21.0	13. 4 20. 1	3 12	6 8	1
White	1 34	1	20, 1	1 1		1 1
White. Colored. Rochester St. Louis	41	(*) 17. 0 15. 8		11		38
Kochester	103 249	17. 0 15. 8	11.9	9	5 22	1
St. Paul	43	9.1	12.7	24 2	4	
St. Dolls St. Paul Sait Lake City 4 San Antonio San Diego San Francisco Schenectady	42 77	16.7	15. 9 12. 7 13. 1 18. 2 23. 6 14. 8	5	6	ē
San Antonio	77	20.3	18. 2	5 13 1 9 2 3 3	15	1
Ban Francisco	41 926	20. 2 21. 1	23.6	1 6	5 7 6	2
Schenectady	226 29 70	16.3	18.0	2	6	1 5
	1 10			3	6	2
Somerville	26	13.7	10.0	3	2	1 3
Somerville Springfield, Mass Syracuse Tacona	47	11.0 13.5	12.5 13.8	4	6 8	25 5 22 7
Tacoma.	26 30 47 20 89	10.0	10.0	. 2	6 2 5 6	10
Toledo	89	16.1	11.4	11.	13	10
Weshington D C	54	21.3 19.0	19.0	11 17 10 7 4 8 7	13	18
White	181	19.0	14.7	17	1. 13	1
Colored	181 131 50	(5)		7		
Waterbury	28 36 59	1		4	4	
	1 36	15.4	15.0	1 8	5	18
Wilmington, Del	1 22	10:	10.		· ~	1
Toledo. Trenton. Washington, D. C. White. Colered. Waterbury. Wiknington, Del. Worcester. Yorkers.	59 38 32	16, 1 17, 4	10.4 11.0	7	5 7 3 8	18

⁴ Deaths for week ended Friday, Jan. 22, 1926.

⁵ In the cities for which deaths are shown by color, the colored population in 1920 constitued the following percentage of the total population: Atlanta 31, Baltimere 15, Birmingham 39, Dalks 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 33, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.

### PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

### UNITED STATES

### CURRENT WEEKLY STATE REPORTS

These reports are preliminary and the figures are subject to change when later returns are received by the State health officers

### Reports for Week Ended January 30, 1926

ALABAMA	Cases	CALIFORNIA	
Chicken pox	53	Cerebrospinal meningitis:	Cases
Diphtheria	16	Los Angeles	
Influenza	326	Los Angeles County	. 2
Malaria	8	San Diego Naval Training Station	
Measles	21	Chicken pox.	
Mumps	55	Diphtheria	
Pellagra		Influenza.	
Pneumonia	198	Leprosy—Tracy	_ 100
Scarlet fever		Lethargic encephalitis—Les Angeles	. 1
Smallpox		Measles	- 62
Tetanus		Mumps	
		Poliomyelitis:	- 190
Tuberculosis		Oakland	. 1
Typhoid fever		Salinas	
Whooping cough	012	San Francisco	
ARIZONA			
Chicken pox	2	San Leandro	
Diphtheria.	-		. 193
Measles		Smallpex:	
Mumps	-	Los Angeles	
Pneumonia	- 1	Los Angeles County	
	-	Scattering	
Poliomyelitis Searlet fever		Typhoid fever	
		Whooping cough	- 63
Tuberculosis		COLORADO	
Typhoid fever		Chicken pox	. 91
Whooping cough	. 9	Diphtheria	. 19
arkansas		Measles	
Chicken pox	32	Mumps	_ 3
Diphtheria.		Pneumonia	
Influenza		Poliomyelitis	
Malaria		Scarlet fever	
Messles		Tuberculosis	
		Typhoid fever	
Mumps		Whooping cough	
Pellagra Scarlet fever			
		Chicken	179
Smallpox Trachoma		Chicken pex	
* * * * * * * * * * * * * * * * * * * *		Diphtheria	
Tuberculosis		German measles	
Typhoid fever		Influenza	
Whooping cough		Lethargic encephalitis	- , A
ton to the second	12	22\	,

CONNECTICUT—COMMUNICA	. 1	illinois—continued	
	Cases		Cases
Measles	779	Measles	610
Mumps	30	Pneumonia	407
Pneumonia (broncho)		Poliomyelitis:	
Pneumonia (lobar)	55	Cook County	1
Scarlet fever		Henry County	1
Septic sore throat		Macon County	1
Tuberculosis (all forms)		Scarlet fever	443
Typhoid fever		Smallpox:	
Whooping cough	88	Logan County	11
DELAWARE		Scattering	30
Chicken pox	8	Tuberculosis	180
Diphtheria		Typhoid fever	26
Measles		Whooping cough	150
Mumps	1	INDIANA	
Pneumonia			
Scarlet fever	11	Cerebrospinal meningitis	
Tuberculosis		Chicken pox	
		Diphtheria	
FLORIDA		Influenza	
Cerebrospinal meningitis	3	Jaundice (epidemic)	
Chicken pox		Measles	
Diphtheria		Mumps	
Influenza		Pneumonia	. 27
Malaria		Poliomyelitis	
Measles		Scarlet fever	
Mumps		Smallpox	. 121
Pneumonia		Tuberculosis	. 49
Scarlet fever		Typhoid fever	. 2
Smallpox		Whooping cough	. 37
Tuberculosis		AWOI	
Typhoid fever			. 47
Whooping cough		Chicken pox	
-	_	Diphtheria. German meusles	. 17
GEORGIA			
	4		
Actinomycosis		Measles	214
Actinomycosis	21	Measles	. 214 . 44
Actinomycosis	21 2	Measles Mumps Pneumonia	. 214 . 44
Actinomycosis. Chicken pox. Conjunctivitis (acute). Diphtheria.	21 2 20	Measles Mumps Pneumonia Scarlet fever	. 214 . 44 . 6
Actinomycosis. Chicken pox. Conjunctivitis (acute) Diphtheria. Dysentery.	21 2 20 1	Measles Mumps Pneumonia Scarlet fever Smallpox	214 - 44 - 6 - 51
Actinomycosis. Chicken pox. Conjunctivitis (acute) Diphtheria. Dysentery. Hockworm disease.	21 2 20 1	Measles Mumps Pneumonis Scarlet fever Smallpox Tuberculosis	214 44 51 29
Actinomycosis. Chicken pox. Conjunctivitis (acute) Diphtheria. Dysentery. Hookworm disease. Influenza.	21 2 20 1 1 448	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	214 44 51 20
Actinomycosis. Chicken pox. Conjunctivitis (acute) Diphtheria Dysentery. Hockworm disease. Influenzs. Malaria.	21 2 20 1 1 448 5	Measles Mumps Pneumonis Scarlet fever Smallpox Tuberculosis	214 44 51 20
Actinomycosis. Chicken pox. Conjunctivitis (acute) Diphtheria. Dysentery. Hoakworm disease. Influenza. Malaria. Measles.	21 2 20 1 1 448 5	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	214 44 51 20
Actinomycosis. Chicken pox. Chicken pox. Conjunctivitis (acute) Diphtheria. Dysentery. Hockworm disease. Influenza. Malaria. Measles. Mumps.	21 2 20 1 1 448 5 10 31	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	214 44. 6 51 29 22. 23
Actinomycosis. Chicken pox. Conjunctivitis (acute) Diphtheria. Dysentery. Hockworm disease. Influenza. Malaria. Measles. Mumps. Pellagra.	21 2 20 1 1 448 5 19 31	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS Cerebrespinal meningitis—Ottawa	214 44 6 51 29 22 6
Actinomycosis. Chicken pox. Conjunctivitis (acute) Diphtheria Dysentery. Hockworm disease. Influenza. Malaria. Measles. Mumps. Pellagra. Pneumonia.	21 2 20 1 1 1 448 5 19 31 1	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS Cerebrospinal meningitis—Ottawa Chicken pex	214 44 51 52 22 6
Actinomycosis. Chicken pox. Chicken pox. Conjunctivitis (acute) Diphtheria. Dysentery. Hookworm disease. Influenza. Malaria. Measles. Mumps. Pellagra. Pneumonia. Scarlet fever.	21 2 20 1 1 448 5 19 31 1 135	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS Cerebrospinal meningitis—Ottawa Diphtheria	214 44 51 29 23 18
Actinomycosis. Chicken pox. Chicken pox. Conjunctivitis (acute) Diphtheria. Dysentery. Hookworm disease. Influenza. Malaria. Measies. Mumps. Pellagra. Pneumonia. Scarlet fever. Septic sore throat.	21 20 1 1 448 5 19 31 1 135 9	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS Cerebrospinal meningitis—Ottawa Chicken pex Diphtheria German measles	214 44 51 29 23 18
Actinomycosis. Chicken pox. Conjunctivitis (acute) Diphtheria Dysentery. Hockworm disease. Influenza. Malaria Measles Mumps. Pellagra. Pneumonia. Scarlet fever. Septic sore throat. Smallpox.	21 2 20 1 1 448 5 19 31 1 135 9 11	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS Cerebrospinal meningitis—Ottawa Chicken pex Diphtheria Gorman measles Influenza	214 44 51 29 23 6 18
Actinomycosis. Chicken pox. Conjunctivitis (acute) Diphtheria Dysentery. Hookworm disease. Influenza. Malaria. Measles. Mumps. Pellagra. Pneumonia. Scarlet fever. Septuc sore throat. Smallpox. Tuberculosis.	21 2 20 1 1 448 5 19 31 1 135 9 11	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS Cerebrospinal meningitis—Ottawa Chicken pex Diphtheria Gorman measles Influenza Measles	214 44 51 51 29 23 6 18
Actinomycosis. Chicken pox. Chicken pox. Conjunctivitis (acute) Diphtheria. Dysentery. Hookworm disease. Influenza. Malaria. Measles. Mumps. Pellagra. Pneumonia. Scarlet fever. Septic sore throat. Smallpox. Tuberculosis. Typhoid fever.	21 2 20 1 1 448 5 19 31 1 135 9 11 17	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS Cerebrospinal meningitis—Ottawa Chicken pex Diphtheria Gorman measles Influenza Measles Mumps	214 44 51 51 22 23 6 18
Actinomycosis Chicken pox Chicken pox Conjunctivitis (acute) Diphtheria Dysentery Hookworm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Typhoid fever Whooping cough	21 2 20 1 1 448 5 19 31 1 135 9 11 17	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS Cerebrospinal meningitis—Ottawa Chicken pex Diphtheria Gorman measles Influenza Measles Mumps Pneumonia	214 44 51 51 22 23 6 18
Actinomycosis. Chicken pox. Chicken pox. Conjunctivitis (acute) Diphtheria. Dysentery. Hookworm disease. Influenza. Malaria. Measles. Mumps. Pellagra. Pneumonia. Scarlet fever. Septic sore throat. Smallpox. Tuberculosis. Typhoid fever.	21 2 20 1 1 448 5 19 31 1 135 9 11 17	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS Cerebrospinal meningitis—Ottawa Chicken pex Diphtheria Gorman measles Influenza Measles Mumps Pneumonia Poliomyelitis:	214 44 51 22 22 18 18
Actinomycosis Chicken pox Conjunctivitis (acute) Diphtheria Dysentery Hookworm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Typhoid fever Whooping cough	21 2 20 1 1 448 5 19 31 1 135 9 11 17 13 15 20	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS  Cerebrospinal meningitis—Ottawa Chicken pex Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis: Linn	214 44 51 29 23 6 18 20 21 21 21 21
Actinomycosis. Chicken pox. Chicken pox. Conjunctivitis (acute) Diphtheria. Dysentery. Hookworm disease. Influenza. Measles. Mumps. Pellagra. Pneumonia. Scarlet fever. Septic sore throat. Smallpox. Tuberculosis. Typhoid fever. Whooping cough. IDAHO Cerebrospinal meningitis—Moscow.	21 2 20 1 1 448 5 19 31 1 135 9 11 17 13 13 15 20	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS Cerebrospinal meningitis—Ottawa Chicken pex Diphtheria Gorman measles Influenza Measles Mumps Pneumonia Poliomyelitis: Linn Wichtta	2144-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4
Actinomycosis Chicken pox Conjunctivitis (acute) Diphtheria Dysentery Hockwerm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Septic sore throat Semallpox Tuberculosis Typhoid fever Whooping cough  IDAEO Cerebrospinal meningitis—Moscow Chicken pox	21 2 20 1 1 448 5 19 31 1 135 9 11 17 13 15 20	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS Cerebrospinal meningitis—Ottawa Chicken pox Diphtheria Gorman measles Influenza Measles Mumps Pneumonia Poliomyelitis: Linn Wichta Scarlet fever	214 44 44 5 6 6 5 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6
Actinomycosis. Chicken pox. Conjunctivitis (acute). Diphtheria. Dysentery. Hookworm disease. Influenza. Malaria. Measles Mumps. Pellagra. Pneumonia. Scarlet fever. Septus sore throat. Smallpox. Tuberculosis. Typhoid fever. Whooping cough. IDAHO Cerebrospinal meningitis—Moscow. Chicken pox. Diphtheria.	21 2 20 1 1 1 448 5 19 11 136 9 11 17 13 15 20	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS  Cerebrospinal meningitis—Ottawa Chicken pex Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis: Linn Wichta Scarlot fever Smallpox	214 44 44 51 51 51 51 51 51 51 51 51 51 51 51 51
Actinomycosis. Chicken pox. Conjunctivitis (acute). Diphtheria. Dysentery. Hookworm disease. Influenza. Malaria. Measies. Mumps. Pellagra. Pneumonia. Scarlet fever. Septue sore throat. Smallpox. Tuberculosis. Typhoid fever. Whooping cough. IDAHO Cerebrospinal meningitis—Moscow. Chicken pox. Diphtheria. Measles.	21 2 20 0 1 1 448 5 19 31 1 17 13 15 20	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhold fever Whooping cough  KANSAS  Cerebrospinal meningitis—Ottawa Chicken pex Diphtheria Gorman measles Influenza Measles Mumps Pneumonia Poliomyelitis: Linn Wichtta Scarlet fever Smallpox Trachoma	214 44 5 6 5 11 5 11 5 11 5 11 5 11 5 11
Actinomycosis. Chicken pox. Conjunctivitis (acute) Diphtheria Dysentery. Hockworm disease. Influenza. Malaria. Measies. Mumps. Pellagra. Pneumonia. Scarlet fever. Septic sore throat. Smallpox. Tuberculosis. Typhoid fever. Whooping cough. IDAHO Cerebrospinal meningitis—Moscow. Chicken pox. Diphtheria. Measies. Mumps.	21 2 20 1 1 448 5 19 31 1 135 9 11 17, 13 15, 20 2 7, 7	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS  Cerebrospinal meningitis—Ottawa Chicken pex Diphtheria Gorman measles Influenza Measles Mumps Pneumonia Poliomyelitis: Linn Wichta Scarlet fever Smallpox Trachoma Tuberculosis	214 44 44 64 64 64 64 64 64 64 64 64 64 64
Actinomycosis Chicken pox Conjunctivitis (acute) Diphtheria Dysentery Hockwerm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Typhoid fever Whooping cough  IDAEO Cerebrospinal meningitis—Moscow Chicken pox Diphtheria Measles Mumps Pneumonia	21 2 20 1 1 448 5 5 19 31 1 135 9 11 17 13 15 20	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS Cerebrospinal meningitis—Ottawa Chicken pox Diphtheria Gorman measles Influenza Measles Mumps Pneumonia Poliomyelitis: Linn Wichta Scarlet fever Smallpox Trachoma Tuberculosis Typhoid fever	214 44 44 4
Actinomycosis Chicken pox Conjunctivitis (acute) Diphtheria Dysentery Hookworm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Septus sore throat Smallpox Tuberculosis Typhoid fever Whooping cough IDAHO Cerebrospinal meningitis—Moscow Chicken pox Diphtheria Measles Mumps Pneumonia Scarlet fever Whooping cough IDAHO Cerebrospinal meningitis—Moscow Chicken pox Diphtheria Measles Mumps Pneumonia Scarlet fever	21 2 20 0 1 1 448 5 19 31 11 13 6 9 11 17 13 15 20	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS  Cerebrospinal meningitis—Ottawa Chicken pex Diphtheria Gorman measles Influenza Measles Mumps Pneumonia Poliomyelitis: Linn Wichta Scarlet fever Smallpox Trachoma Tuberculosis	214 44 44 64 64 64 64 64 64 64 64 64 64 64
Actinomycosis Chicken pox Conjunctivitis (acute) Diphtheria Dysentery Hockworm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Typhoid fever Whooping cough  IDAHO Cerebrospinal meningitis—Moscow Chicken pox Diphtheria Measles Mumps Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Typhoid fever Whooping cough  IDAHO Cerebrospinal meningitis—Moscow Chicken pox Diphtheria Measles Mumps Pneumonia Scarlet fever Smallpox	21 2 20 0 1 1 448 5 19 31 11 13 6 9 11 17 13 15 20	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhold fever Whooping cough  KANSAS  Cerebrospinal meningitis—Ottawa Chicken pex Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis: Linn Wichta Scarlet fever Smallpox Trachoma Tuberculosis Typhold fever Whooping cough	2144 444 444 444 444 444 444 444 444 444
Actinomycosis Chicken pox Conjunctivitis (acute) Diphtheria Dysentery Hookworm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Septus sore throat Smallpox Tuberculosis Typhoid fever Whooping cough IDAHO Cerebrospinal meningitis—Moscow Chicken pox Diphtheria Measles Mumps Pneumonia Scarlet fever Whooping cough IDAHO Cerebrospinal meningitis—Moscow Chicken pox Diphtheria Measles Mumps Pneumonia Scarlet fever	21 2 20 0 1 1 448 5 19 31 11 13 6 9 11 17 13 15 20	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhold fever Whooping cough  KANSAS  Cerebrospinal meningitis—Ottawa Chicken pex Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis: Linn Wichta Scarlet fever Smallpox Trachoma Tuberculosis Typhold fever Whooping cough	2144 444 444 444 444 444 444 444 444 444
Actinomycosis Chicken pox Conjunctivitis (acute) Diphtheria Dysentery Hockwerm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Typhoid fever Whooping cough  IDAHO Cerebrospinal meningitis—Moscow Chicken pox Diphtheria Measles Mumps Pneumonia Scarlet fever Scarlet fever Scarlet fever Whooping cough  IDAHO Cerebrospinal meningitis—Moscow Chicken pox Diphtheria Measles Mumps Pneumonia Scarlet fever Smallpox	21 2 20 1 1 448 5 5 19 31 1 135 9 11 17 13 15 20 2 7 7	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS  Cerebrospinal meningitis—Ottawa Chicken pex Diphtheria Gorman measles Influenza Measles Mumps Pneumonia Poliomyelitis: Linn Wichta Scarlet fever Smallpox Trachoma Tuberculosis Typhoid fever Whooping cough  LOUISIANA Diphtheria	- 214 - 444 - 6 51 - 25 - 25 - 25 - 15 - 25 - 15 - 25 - 25 - 25 - 25 - 25 - 25 - 25 - 2
Actinomycosis. Chicken pox. Conjunctivitis (acute). Diphtheria. Dysentery. Hookworm disease. Influenza. Malaria. Measles. Mumps. Pellagra. Pneumonia. Scarlet fever. Septus sore throat. Smallpox. Tuberculosis. Typhoid fever. Whooping cough. IDAHO Cerebrospinal meningitis—Moscow. Chicken pox. Diphtheria. Measles. Mumps. Pneumonia. Scarlet fever. Scarlet fever. Whooping cough. IDAHO Cerebrospinal meningitis—Moscow. Chicken pox. Diphtheria. Measles. Mumps. Pneumonia. Scarlet fever. Smallpox.  ILLINOIS Cerebrospinal meningitis—Cook County.	21 20 20 1 1 448 5 5 19 31 1 1 17 13 15 20 2 7 7	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS  Cerebrospinal meningitis—Ottawa Chicken pex Diphtheria Gorman measles Influenza Measles Mumps Pneumonia Poliomyelitis: Linn Wichita Scarlot fever Smallpox Trachoma Tuberculosis Typhoid fever Whooping cough  LGUISIANA Diphtheria Influenza	21444444444444444444444444444444444444
Actinomycosis Chicken pox Conjunctivitis (acute) Diphtheria Dysentery Hockwerm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Septic sore throat Smallpox Tuberculosis Typhoid fever Whooping cough  IDAHO Cerebrospinal meningitis—Moscow Chicken pox Diphtheria Measles Mumps Pneumonia Scarlet fever Scarlet fever Scarlet fever Whooping cough  IDAHO Cerebrospinal meningitis—Moscow Chicken pox Diphtheria Measles Mumps Pneumonia Scarlet fever Smallpox	21 20 20 1 1 448 5 5 19 31 135 9 11 17 13 15 20 2 7 7 1 13 15 20	Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS  Cerebrospinal meningitis—Ottawa Chicken pex Diphtheria Gorman measles Influenza Measles Mumps Pneumonia Poliomyelitis: Linn Wichta Scarlet fever Smallpox Trachoma Tuberculosis Typhoid fever Whooping cough  LOUISIANA Diphtheria	214 44 44 44 44 44 44 44 44 44 44 44 44 4

LOUISIANA—continued		MINNESOTA	
	Cases		Cases
Scarlet fever	7	Chicken pox	152
Smallpox	42	Diphtheria	
Tuberculosis	30	Influenza	
Typhoid fever	12	Measles Pneumonia	
Whooping cough	١٥	Poliomyelitis	
Chicken pox	58	Searlet fever	
Diphtheria	2	Smallpox	
German measles	3	Tuberculosis	40
Influenza	14	Typhoid fever	. 2
Measles	19	Whooping cough	46
Mumps	27	MISSISSIPPI	
Paratyphoid fever	1	Diphtheria	13
Pneumonia	32	Poliomyelitis	
Scarlet fever	33	Scarlet fever	
Septic sore throat	9	Smallpox	
Tuberculosis	9	Typhoid fever	
Typhoid fever	2	MISSOURI	
Vincent's angina	3		
Whooping cough	32	(Exclusive of Kansas City)	
MARYLAND 1	104	Cerebrospinal meningitis:	. 1
Chicken pox	164 31	Chicken pox	. 52
Dysentery	_	Diphtheria	
German measles	- 1	Epidemic sore throat	
Influenza		Influenza	
Lethargic encephalitis		Measles.	
Measles		Mumps	
Mumps		Ophthalmia neonatorum	
Pneumonia (broneho)	127	Pneumonia	-
Pneumonia (lobar)	145	Scarlet feverSmallpox	
Scarlet fever	49	Trachoma	
Tuberculosis		Tuberculosis	
Typhoid fever		Whooping cough	
Whooping cough	61		
MASSACHUSETTS		MONTANA 2	_ 56
Cerebrospinal meningitis	. 2	Chicken pox	
Chicken pex		German measles	
Conjunctivitis (suppurative)		Influenza	
Diphtheria		Lethargic encephalitis	
German measles		Measles	
Influenza		Mumps	
Lethargic encephalitis Malaria		Scarlet fever	_ 74
Measies		Smallpox	_ 18
Mumps		Tuberculosis	
Ophthalmia neonatorum		Typhoid fever	
Pneumonia (lobar)		Whooping cough	_ 39
Poliomyelitis	. 2	Nebraska	-
Scarlet fever	358	Chicken pox	_ 25
Septic sore throat	. 4	Diphtheria	
Tuberculosis (pulmonary)		Influenza	
Tuberculosis (other forms)		Measles	
Typheid fever		Mumps	
Whooping cough	. 469	Scarlet fever	
MICHIGAN	0.0	Smallpox	
Diphtheria	. 86	Tuberculosis Whooping cough	
Pneumonis	1,601		l
Scarlet fever	340	NEW JERSEY	•
Smallpox		Cerebrospinal meningitis	2
Tuberculosis		Chicken pox	
Typhoid fever	7	Diphtheria	
Whooping cough	223	Influenza	
1 Week ended Friday.	2 10	eport for two weeks ended Jan. 30, 1926.	

NEW JERSEY—continued	1	OKLAHOMA—continued	
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Measles	·	Pellagra	3 '
Pneumonia Conduction	218	Pneumonia Scarlet fever	211 21
Scarlet fever	207	Smallpox	10
Smallpox Typhoid fever	9	Typhoid fever	14
Whooping cough.	73	Whooping cough	51
		OREGON	
NEW MEXICO	1		
Cerebrospinal meningitis	1	Cerebrospinal meningitis	1 15
Chicken pox	54	Chicken pox Diphtheria	16
Conjunctivitis Diphtheria	1 2	Influenza	49
Influenza	3	Measles	14
Measles.	1	Mumps	38
Mumps	22	Pneumonia 3	2 16
Pneumonia	24	Scarlet fever	49
Scarlet fever	22	Smallpox:	-
Smallpox	2	Deschutes County	33 26
Tuberculosis	97	Morrow County	20 11
Wheoping cough	23	Portland	10
NEW YORK		Scattering	23
(Exclusive of New York City)		Tuberculosis	7
Cerebrospinal meningitis.	2	Typhoid fever	4
Chicken pox.		Whooping cough	44
Diphtheria		PENNSYLVANIA	
German measles	290	Cerebrospinal meningitis—Dayton	1
Influenza		Chicken pox	929
Lethargic encephalitis		Diphtheria	180
Measles.		German measles	73
Mumps. Ophthalmia neonatorum.		Impetigo contagiosa	9
Pneumonia.		Lethargic encephalitis	2
Poliomyelitis		Measles.	•
Scarlet fever		Mumps	204
Septic sere throat		Ophthalmia neonatorum—Philadelphia Pneumoma	1 120
Trachoma		Scabies	8
Typhoid fever		Scarlet fever	619
Vincent's angina			
		Tetanus-Pittsburgh	-
Whooping cough	. 332	Tuberculosis	1 106
NORTH CAROLINA	. 332	Tuberculosis Typhoid fever	1 106 23
-		Tuberculosis	1 106 23
NORTH CAROLINA  Cerebrospinal meningitis  Chicken pox	. 1 . 170	Tuberculosis Typhoid fever	1 106 23 381
NORTH CAROLINA  Cerebrospinal meningitis  Chicken pox  Diphtheria	. 1 . 170 . 34	Tuberculosis	1 106 23 381
NORTH CAROLINA  Cerebrospinal meningitis  Chicken pox  Diphtheria.  German measles.	. 170 . 34	Tuberculosis	1 106 23 381 8 7
NORTH CAROLINA  Cerebrospinal meningitis  Chicken pox  Diphtheria  German measles  Measles	1 170 34 41 162	Tuberculosis Typhoid fever Whooping eough RHODE ISLAND Chicken pox Diphtheria German measles	1 106 23 381 8 7
NORTH CAROLINA  Cerebrospinal meningitis Chicken pox Diphtheria German measles Measles Scarlet fever	1 170 34 41 162 47	Tuberculosis Typhoid fever Whooping cough RHODE ISLAND Chicken pox Diphtheria German measles. Influenza	1 106 23 381 8 7 1
NORTH CAROLINA  Cerebrospinal meningitis Chicken pox Diphtheria German measles Measles Scarlet fever Smalipox	1 170 34 41 162 47 58	Tuberculosis Typhoid fever Whooping cough RHODE ISLAND Chicken pox Diphtheria German measles Influenza Measles	1 106 23 381 8 7 1
NORTH CAROLINA  Cerebrospinal meningitis Chicken pox Diphtheria German measles Measles Scarlet fever Smallpox Typhoid fever	1 170 34 41 162 47 58 6	Tuberculosis Typhoid fever Whooping cough RHODE ISLAND Chicken pox Diphtheria German measles. Influenza	1 106 23 381 8 7 1 9 513
NORTH CAROLINA  Cerobrospinal meningitis Chicken pox Diphtheria German measles Measles Scarlet fever Smalipox Typhoid fever Whooping cough	1 170 34 41 162 47 58 6	Tuberculosis Typhoid fever Whooping eough RHODE ISLAND Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonis Scarlet fever	1 106 23 381 8 7 1 9 513 4 1
NORTH CAROLINA  Cerobrospinal meningitis Chicken pox Diphtheria German measles Measles Scarlet fever Smalipox Typhoid fever Whooping cough	1 170 34 41 162 47 58 6 111	Tuberculosis Typhoid fever Whooping cough RHODE ISLAND Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Scarlet fever Tuberculosis	1 106 23 381 8 7 1 9 513 4 1 10 5
NORTH CAROLINA  Cerobrospinal meningitis Chicken pox Diphtheria German measles Measles Scarlet fever Smalpox Typhoid fever Whooping cough OKLAHOMA (Exclusive of Tulsa and Oklahoma City	1 170 34 41 162 47 58 6 111	Tuberculosis Typhoid fever Whooping eough  RHODE ISLAND  Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever—Woonsocket	1 106 23 381 8 7 1 9 513 4 1 10 5
NORTH CAROLINA  Cerebrospinal meningitis Chicken pox Diphtheria German measles Measles Scarlet fever Smalipox Typhoid fever Whooping cough OKLAHOMA (Exclusive of Tulsa and Oklahoma City Cerebrospinal meningitis:	1 170 34 41 162 47 58 6 1111	Tuberculosis Typhoid fever Whooping eough  RHODE ISLAND Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever—Woonsocket Whooping cough	1 106 23 381 8 7 1 9 513 4 1 10 5
NORTH CARCLINA  Cerebrospinal meningitis Chicken pox Diphtheria German measles Measles Scarlet fever Smallpox Typhoid fever Whooping cough  OKLAHOMA (Exclusive of Tulsa and Oklahoma City Cerebrospinal meningitis: Mayes	1 170 34 41 162 47 58 6 1111	Tuberculosis Typhoid fever Whooping eough  RHODE ISLAND Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever—Woonsocket Whooping cough	1 106 23 381 8 7 1 9 513 4 1 10 5 1
NORTH CARCLINA  Cerebrospinal meningitis Chicken pox Diphtheria German measles Measles Scarlet fever Smalipox Typhoid fever Whooning cough  OKLAHOMA (Exclusive of Tulsa and Oklahoma City Cerebrospinal meningitis: Mayes Tulsa	1 170 34	Tuberculosis Typhoid fever Whooping eough RHODE ISLAND Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever—Woonsocket Whooping cough SOUTH DAKOTA Chicken pox	1 106 23 381 8 7 1 9 513 4 1 10 5 1 16
NORTH CAROLINA  Cerebrospinal meningitis Chicken pox Diphtheria German measles Measles Scarlet fever Smalpox Typhoid fever Whooping cough OKLAHOMA (Exclusive of Tulsa and Oklahoma City Cerebrospinal meningitis: Mayes Tulsa Chicken pox	1 170 34 47 47 47 58 6 6 1111 77)	Tuberculosis Typhoid fever Whooping eough RHODE ISLAND Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever—Woonsocket Whooping cough SOUTH DAKOTA Chicken pox Diphtheria	1 106 23 381 8 7 1 9 513 4 1 10 5 1 16
NORTH CARCLINA  Cerebrospinal meningitis Chicken pox Diphtheria German measles Measles Scarlet fever Smalipox Typhoid fever Whooning cough  OKLAHOMA (Exclusive of Tulsa and Oklahoma City Cerebrospinal meningitis: Mayes Tulsa	1 170 34 41 162 47 58 6 1111 97)	Tuberculosis Typhoid fever Whooping cough RHODE ISLAND Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonis Scarlet fever Tuberculosis Typhoid fever—Woonsocket. Whooping cough SOUTH DAKOTA Chicken pox Diphtheria Measles	1 106 23 381 8 7 1 9 513 4 1 10 5 1 16
NORTH CARCLINA  Cerebrospinal meningitis Chicken pox Diphtheria German measles Measles Scarlet fever Smallpox Typhoid fever Whooping cough  OKLAHOMA (Exclusive of Tulsa and Oklahoma City Cerebrospinal meningitis: Mayes Tulsa Chicken pox Diphtheria Influenza Malaria	1 170 34 41 162 47 56 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tuberculosis Typhoid fever Whooping eough RHODE ISLAND Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever—Woonsocket Whooping cough SOUTH DAKOTA Chicken pox Diphtheria Measles Mumps Pneumonia	1 106 23 381 8 7 1 9 513 4 1 10 5 1 16 16 7 7 3
NORTH CAROLINA  Cerebrospinal meningitis Chicken pox Diphtheria German measles Measles Scarlet fever Smalipox Typhoid fever Whooping cough OKLAHOMA (Exclusive of Tulsa and Oklahoma City Cerebrospinal meningitis: Mayes Tulsa Chicken pox Diphtheria Influenza Malaria Measles	1 170 34 41 162 477 58 6 1111 111 111 111 111 111 111 111 111	Tuberculosis Typhoid fever Whooping eough RHODE ISLAND Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever—Woonsocket Whooping cough SOUTH DAKOTA Chicken pox Diphtheria Measles Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever—Wonsocket Whooping cough	1 106 23 381 8 7 1 9 513 4 1 10 5 11 6 7 5 7 3 5 5 4
NORTH CARCLINA  Cerebrospinal meningitis Chicken pox Diphtheria German measles Measles Scarlet fever Smallpox Typhoid fever Whooping cough  OKLAHOMA (Exclusive of Tulsa and Oklahoma City Cerebrospinal meningitis: Mayes Tulsa Chicken pox Diphtheria Influenza Malaria	1 170 34 41 162 477 58 6 1111 111 111 111 111 111 111 111 111	Tuberculosis Typhoid fever Whooping eough  RHODE ISLAND Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever—Woonsocket Whooping cough  SOUTH DAKOTA Chicken pox Diphtheria Measles Mumps Pneumonia South Dakota Chicken pox Diphtheria Measles Mumps Pneumonia Scarlet fever Scarlet fever	1 106 23 381 8 7 1 9 513 4 1 10 5 11 6 7 5 7 3 5 5 4

TENNESSEE	a 1	WASHINGTON—continued	G
	Cases		Cases
Cerebrospinal meningitis—Hardin County	1	Chicken pox	137
Chicken pox	39 7	Diphtheria	13
Diphtheria Influenza	137	German measles	
Malaria	3	Influenza	
		Measles	
Measles Ophthalmia ueonatorum	3	Mumps	
Pellagra		Scarlet fever	101
Pneumonia		Smallpox:	
Scarlet fever		Tacoma	
		Scattering.	
Smallpox	35	Tuberculosis	
TuberculosisTyphoid fever		Typhoid fever	1
Whooping cough		Whooping cough	52
A noobing condu	. 10	WEST VIRGINIA	
TEXAS		Diphtheria	. 8
Cerebrospinal meningitis	. 2	Scarlet fever	
Chicken pox		Smallpox	
Diphtheria.		Typhoid fever	
Influenza			-
Lethargic encephalitis		WISCONSIN	
Measles		Milwaukee:	
Mumps		Cerebrospinal meningitis	
Pellagra		Chicken pox	
Pneumonia		Diphtheria	
Scarlet fever		German measles	
Smallpox		Measles	
Tuberculosis	19	Mumps	
Typhold fever	10	Preumonia	
Whooping cough	43	Scarlet fever	
wasping coaga	. 30	Tuberculosis	
UTAH		Typhoid fever	
Cerebrospinal meningitis-Salt Lake City	. 1	Whooping cough	. 63
Chicken pox		Scattering:	. 1
Diphtheria.		Cerebrospinal meningitis	
Influenza	662	Chicken pox	
Measles.		Diphtheria	
Mumps		German measles	
Pneumonia		Influenza	
Poliomyelitis—Salt Lake City	. 1	Measles	
Scarlet fever		Mumps	
Smallpox	. 5	Pneumonia.	
Typhoid fever	. 1	Scarlet fever	
Whooping cough	. 25	Smallpox	
		Tuberculosis	
VERMONT		Typhoid fever	. 119
Chicken pox	. 15	Whooping cough	. 113
Diphtheria	. 2	WYOMING	
Measles	. 3	Complemental manipolities	
Mumps.	. 1	Cerebrospinal meningitis:	
Scarlet fever	. 12	Platte	
Typhoid fever	. 1		
Whooping cough	. 25	Chicken pox	
VIRGINIA		Diphtheria Influenza	
	_	Measles	
Smallpor	. 8	Mumps	
Washington		Paratyphoid fever	
Cerebrospinal meningitis:		Scarlet fever	
Seattle	. 1	Smallpox	
Spokene		Tuberculosis (pulmonary)	
Stevens County	. 3	Whooping cough	
*Incomplete report.			

### Reports for Week Ended January 23, 1926

DISTRICT OF COLUMBIA		NORTH DAKOTA—continued	
1	Cases		Cases
Chicken pov	27	German measles	. 26
Diphtheria	21	Influenza	. 1
Influenza		Measles	
Measles		Mumps	
Pneumonia		Pneumonia	
Scarlet fever		Scarlet fever	
Tuberculosis	24	Smellpox	
Whooping cough	22	Tuberculosis	
NORTH DAKOTA		Typhoid fever	
Chicken pox	16	Whooping cough	
Diphtheria		17.00	

### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Cere- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
California District of Columbia Kansas. Maine Mississippi Missouri New York. Oregon Rhode Island South Carolina. Tennessee' Washington West Virginia. Wyoming.	25 0 6 3 2 15 11 1 1 2 14 2 0	547 106 95 15 159 316 1,053 159 117 288 89 92 129 7	367 9 36 7 4,009 58 180 32 32 1,960 221 1 127 4	3 1 0 2,567 1 3 0 328 29	131 27 84 13 1, 200 50 7, 311 24 1, 385 34 108 68 267 2	9 2 3 0 214	23 1 4 0 3 3 28 0 4 1 1	607 89 233 126 88 660 1, 503 213 64 65 178 384 234 52	278 0 15 0 77 37 2 29 93 0 58 27 322 3 25	59 50 25 139 22 232 200 6 104 97 17 91 3

^{, 1} Reports incomplete.

### PLAGUE-ERADICATIVE MEASURES IN THE UNITED STATES

The following items were taken from the reports of plague-eradicative measures from the cities named:

### Los Angeles, Calif. Week ended Jan. 16, 1926: Number of rats found to be plague infected_____ Number of squirrels examined 816 Number of squirrels found to be plague infected_____ Number of mice trapped 3, 415 Number of mice found to be plague infected_____

Date of discovery of last plague-infected rodent, Nov. 6, 1925.

Date of last human case, Jan. 15, 1925.

### Oakland, Calif.

### (Including other East Bay communities)

Week ended Jan. 16, 1926:
Number of rats trapped 428
Number of rats found to be plague infected
Totals:
Number of rats trapped Jan. 1, 1925 to Jan. 16, 1926 80, 289
Number of rats found to be plague infected 21
Number of squirrels examined May 1 to Aug. 1, 1925 7, 277
Number of squirrels found to be plague infected0
Number of mice trapped Jan. 1, 1925 to Jan. 16, 1926 31, 036
Date of discovery of last plague-infected rat, Mar. 4, 1925.
Date of last human case, Sept. 10, 1919.

### GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended January 16, 1926, 36 States reported 1,405 cases of diphtheria. For the week ended January 17, 1925, the same States reported 1,783 cases of this disease. One hundred and two cities, situated in all parts of the country and having an aggregate population of more than 30,300,000, reported 850 cases of diphtheria for the week ended January 16, 1926. Last year for the corresponding week they reported 959 cases. The estimated expectancy for these cities was 1,194 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-three States reported 7,955 cases of measles for the week ended January 16, 1926, and 1,931 cases of this disease for the week ended January 17, 1925. One hundred and two cities reported 5,687 cases of measles for the week this year, and 1,063 cases last year.

Poliomyelitis.—The health officers of 38 States reported 14 cases of poliomyelitis for the week ended January 16, 1926. The same States reported 21 cases for the week ended January 17, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-six States—this year, 3,714 cases; last year, 4,026 cases; 102 cities—this year, 1,664 cases; last year, 1,972 cases; estimated expectancy, 1,198 cases.

Smallpox.—For the week ended January 16, 1926, 36 States reported 879 cases of smallpox. Last year for the corresponding week they reported 1,249 cases. One hundred and two cities reported smallpox for the week as follows: 1926, 274 cases; 1925, 319 cases; estimated expectancy 106 cases. Three deaths from smallpox were reported by these cities for the week this year—at Los Angeles, Calif.

Typhoid fever.—Two hundred and fifty-two cases of typhoid fever were reported for the week ended January 16, 1926, by 35 States. For the corresponding week of 1925, the same States reported 293

cases of this disease. One hundred and two cities reported 63 cases of typhoid fever for the week this year and 116 cases for the corresponding week last year. The estimated expectancy for these cities was 56 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 95 cities, with a population of more than 29,600,000, as follows: 1926, 1,329 deaths; 1925, 1,270.

### City reports for week ended January 16, 1926

The "estimated expectancy" given for diphtheria, poliomyeiitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases 1e- ported	Diphtheria		Influenza		Mea-		Bran
			Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sies, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine: Portland	75, 333	1	2	0	1	0	4	6	1
New Hampshire: Concord	22, 546	0	0	0	0	1	2	3	1
Vermont: Barre	10,008	0	0	0	0	0	0	0	0
Massachusetts: Boston	779, 620	58	65	29	2	2	160	18	37
Fall River	128, 993 142, 065	1 14	6 4	6 1	0	0	188 35	. 6	1
Worcester	190, 757	1	6	7	0	0	167	1	12
Pawtucket Providence Connecticut:	69, 760 267, 918	8 0	2 12	0 7	0	0	29 454	. 0	11
Bridgeport	(1)	0 12	9 8	7	1 0	1	110 31	0	2
Hartford New Haven	160, 197 178, 927	34	5	Ô	ő	0	33	0	10 8
MIDDLE ALTANTIC						ĺ			
New York: Buffalo	538,016	22	20	8	0	2	8	1	11
New York Rochester	5, 873, 356 316, 786	247 41	222 10	167 16	56 0	17	1, 236 50	33 0	286 8
Syracuse New Jersey:	182,003	34	ĩŏ	ĩ	ŏ	ō	8	10	ě
Camden Newark	128, 642 452, 513	21 96	5 20	3 8	0	0	27 121	0 5	8 25
Trenton Pennsylvania:	132, 020		6						
Philadelphia Pittsburg	1, 979, 364 631, 563	196 47	78 25	89 . 10	1	9	226 17	26 13	92 27
Reading	112,707	10	5	1	0	0	4	a	4
EAST NORTH CENTRAL								ŀ ·	
Ohio: Cincinnati	409, 333	11	12	7	0	4	1	Q	20 29
Cleveland Columbus	936, 485 279, 836	51 19	37 5	27 1	9	2	690 10	0	6
Toledo	287, 380	26	10	12	l ö	1	39	1 0	. 9

¹ No estimate made.

City reports for week ended January 16, 1926—Continued

						<u>1</u>		<del></del>	
		Oh inh	Dipht	heria	Influ	ienza	70		
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cuses re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
EAST NORTH CENTRAL— continued									
Indiana: Fort Wayne Indianapolis South Bend Terre Haute Illinois:	97, 846 358, 819 80, 091 71, 071	3 10 1	5 15 1 1	1 4 0 1	0 0 0 0	1 1 0 0	0 198 1 4	0 0 0	4 11 3 0
Chicago Peoria Springfield Michigan:	2, 995, 239 81, 564 63, 923	122 4 3	131 2 2	71 1 1	7 0 1	0 0	67 1 1	11 4 3	78 2 1
Detroit Flint Grand Rapids Wisconsin:	1, 245, 824 130, 316 153, 698	85 5 8	72 9 5	39 2 2	9	1 0 2	910 8 11	3 1 1	48 1 4
Madison Milwaukee Racine Superior	46, 385 509, 192 67, 707 39, 671	27 151 3 0	0 21 2 1	0 41 1 0	0 1 1 0	0 1 1 0	2 7 1 0	2 28 1 0	16 2 2
WEST NORTH CENTRAL									
Minnesota: Duluth Minneapolis St. Paul	110, 502 425, 435 246, 001	9 84 47	3 22 17	0 32 23	0	0 0 2	0 7 4	0 0 12	4 17 10
Iowa: Davenport Des Moines Sioux City Waterloo	(1) (1) (1) (1) 36, 771	1 2 8 1	1 4 2 0	2 4 0 0	0 0		1 3 2 1	0 0 0 1	
Missouri: Kansas City St. Joseph St. Louis North Dakota:	367, 481 78, 342 821, 543	30 2 31	11 4 55	8 0 59	3 0 1	3 2 1	33 0 11	3 0 5	8 5
Farge Grand Forks South Dakota:	26, 403 14, 811	5 6	0	0	0	0	5 0	38 0	2
Aberdeen Sioux Falls Nebraska:	15, 036 30, 127	0 3	1	0	0	0	1 0	38 0	
Lincoln Omaha Kansas:	60, 941 211, 768	12 7	3 5	1 2	0	0	0	0	3 9
Topeka Wichita	55, 411 88, 367	12 18	2 4	2 2	0	0	0	0	2 3
SOUTH ATLANTIC									,
Delaware: Wilmington Maryland:	122, 049	1	2	1	0	0	17	1	7
Baltimore Cumberland Frederick	796, 296 33, 741 12, 035	132 0	30 1 0	16 2 0	55 0 0	5 0 0	653 3 3	117 0 0	60 0 0
District of Columbia: Washington	497, 906	22	20	26	6	2	19	0	30
Virginia: Lynchburg Norfolk	30, 395	24 21	1 3 7	2 3 7	0	0	1 4	2	0 2
Richmond Roanoke West Virginia:	186, 403 58, 208	11 5	7 2	7	0	0 1 1	3	1 1 1	0 2 5 2
Charleston Huntington Wheelink	49, 019 63, 485 56, 208	0 0 1	2 2 2	1 3 1	0 9 0	0 1 0	0 0 1	0 0	5 3
North Carolina: Raleigh Wilmington Winsten-Salem	30, 371 37, 961 69, 931	1 5 9	0 1	0 1	0 0	1 0 0	0 0 16	0 2 3	1 1 5

¹No estimate made.

# City reports for week ended January 16, 1926-Continued

			Diph	theria	Influ	ienza			
Division, State, and city	Population July I, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
SOUTH ATLANTIC-con.									
South Carolina: Charleston Columbia Greenville Georgia:	73, 125 41, 225 27, 311	1 2 2	1 1 0	2 0 0	0	0 0 0	0	0 1 0	4 0 0
Atlanta Brunswick Savannah Florida:	(1) 16, 809 93, 134	4 0 2	3 0 2	7 0 3	54 10 16	2 0 0	1 0 0	0 0 1	12 0 5
Tampa	94, 743	6	1	1	0	0	0	0	3
EAST SOUTH CENTRAL									
Kentucky: Covington Louisville Tennessee:	58, 309 305, 935	0 6	2 9	2 2	0 3	1 2	0	0	6 10
Memphis Nashville	174, 533 136, 220	10 0	6 2	4 0	0	3	2 40	0	11 13
Alabama Birmingham Mobile Montgomery	205, 670 65, 955 46, <del>4</del> 81	15 1 9	3 1 1	3 0 2	11 0 1	6 1 0	1 0 0	1 0 23	13 2 0
WEST SOUTH CENTRAL									
Arkansas Fort Smith Little Rock	31, 643 74, 216	2 2	1	0	0	0	1 0	0	3
Louisiana. New Orleans Shreveport	414, 493 57, 857	2 5	14	6	15 0	S 2	0	0	26 5
Oklahoma: Oklahoma City	(1)	1	2	0	0	0	1	0	2
Texas: Dallas Galveston Houston San Antonio	194, 450 48, 375 164, 954 198, <b>0</b> 69	11 0 0 0	7 1 4 2	5 6 5 5	0 0	2 0 5 0	2 0 1 0	0	16 4 12 9
MOUNTAIN									
Montana: Billings Great Falls Holena Missoula Idaho:	17, 971 29, 883 12, 037 12, 668	11 15 2 0	0 1 0 0	0 0 0 1	0 0	0 0	0 3 0 1	50	1 1 1 0
Boise	23, 042	5	0	0	0	0	0	0	0
Denver Puæblo	280, 911 43, 787	25 4	9	8	0	6	5	0	20
Arizona: Phoenix	38, 669	1	1	0	0	0	1	0	4
Utah: Salt Lake City Nevada:	130, 948	49	3	4	0	0	1	34	9
Reno	12, 665	0	0	0	0	0	0	.0	0
PACIFIC									
Washington: Seattle Spokane Tacoma	(1) 108, 897 104, 445	63 17 4	6 4 3	4 1 5	1 0		0 0	0	3
Oregon: Portland	282, 383	7	8	6	3	0	1	4	12
California: Los Angeles Sacramento San Francisco	(1) 72, 260 557, 530	69 9 30	42 3 26	12 3 5	18 67 56	1 2	9	1) 0	15

¹ No estimate made.

City reports for week ended January 16, 1926-Continued

	Scarlet	fever	Smallpox		Tuber-	Ту	Whoop-				
Division, State, and city	Cases, osti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis,	mated	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
NEW ENGLAND											25.
Maine: Portland	2	13	0	0	0	0	1	0	0	10	17
New Hampshire: Concord	0	0	0	0	0	1	0	0	0	0	15
Barre	0	0	0	0	0	0	0	0	0	0	3
Massachusetts: Boston	50	94	0	0	0	23	0	0	0	73	251
Fall River Springfield Worcester	9	3 8 20	0	0	0 0	2 4	0	0 0	0 0	6 7 7	46 34 59
Rhode Island: Pawtucket	1 8	0 5	0	0	0	0 5	0	0	0	3 3	32 92
Providence Connecticut: Bridgeport	6	10	0	0	0	2	0	0	0	6	29
Hartford New Haven	. 8	6 2	0	0	0	0	0	0	0	2 5	29 40
MIDDLE ATLANTIC											
New York: Buffalo New York Rochester Syracuse New Jersey:	. 14	24 194 26	1 0 0 0	5 0 0 0	0000	1 105 4	1 11 1 1	6 13 0 0	2 2 0 0	35 64 1 62	152 1, 557 86 45
Camden Newark	21	19 29	0	0	0		1 0	4 2	0	3 18	31 123
Trenton Pennsylvania: Philadelphia Pittsburgh Reading	- 68 32	94 81 5	1 0		0 0	14	1 4 2 0	7 0 0	2 0 0	30 22 7	616 194 41
EAST NORTH CEN-							1				
Ohio: Cincinnati Cleveland Columbus Toledo Indiana:	10	14 30 20 7	2	5	0000	16	2 0	0 1 1 0	0 0	29 67 12 15	148 213 64 55
Fert Wayne_ Indianapolis_ South Bend _ Terre Haute_ Illinois:	. 4	11 3 6	6	1 11	000	8	1 1	1 1 0 0	0 0 0	20	27 98 18 20
Ohleago Peoria Springfield Michigan:	145 6 2	168 7 3	0	! 0	0	1	. 0	0	0	52 2 0	781 16 13
Detroit Flint Grand Rapids Wisconsin:	90 9 11	124 9 42	1	0	1 0	2	1	0	0	91 60 31	333 22 33
Madison Milwaukee Racine Superior	38 - 6 - 2	3 21 1 9	2	0		5	1 0	5	0 0 0	58 8 0	99 14 , 5
WEST NORTH CENTRAL											1
Minnesota: Duluth Minneapolis St. Paul	- 6 42 24	59	16	0	1 0	) 3	0 1	. 1	0	12 1 1 15	20 122 61

¹ Pulmonary tuberculosis only.

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City reports for week ended January 16, 1926—Continued

	Scarle	t fever		Smallpo	)%	Tuber-	Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST NORTH CEN- TRAL—Continued											
Iowa: Davenport	2	4	1	0			0	0		1	
Des Moines Sioux City Waterloo	8 3 2	6 2 1	2 0 0	1 10 2			0	0		0 0 2	
Missouri Kansas City St. Joseph	14 3	27 1	2	0	0	9 2	0	0	0	17 0	108 34
St. Louis North Dakota: Fargo	38	99 4	2	0	0	10	0	0	0	7 2	242 7
Grand Forks South Dakota:	1	0	Ð	0			0	0		0	
Aberdeen Sioux Falls Nebraska:	0 2	1	0 1	0		 	0	0		0	
LincolnOmaha Kansas:	2 5	4 8	0 5	0 13	0	0 2	0	0	0	3 2	20 57
Topeka Wichita	2 4	4 3	0 0	0	0 0	1 2	0	0	0	1 0	14 34
SOUTH ATLANTIC		-									
Delaware: Wilmington Maryland:	3	10	0	0	0	2	1	0	0	3	29
Baltimore Cumberland	33 1	23 0	1 0	0	. 0	23 1 0	0	0	0	33 2 0	309 8 3
Frederick District of Col.: Washington	22	28	0	0	0	11	0 2	1	1	3	194
Virginia: Lynchburg Norfolk	0	2 5	0	0	0	0 4	0	0	0	4 5	4
Richmond	5	13 4	0	0 2	0	7 2	0 1	0	0	0	69 18
West Virginia: Charleston Huntington	1 1	0 3 5	0	0	0	1 2 0	0	0	0	0 0	12 21 10
Wheeling North Carolina: Raleigh	0	1	0	4	0	1	0	0	0	0	17
Wilmington Winston-Salem South Carolina:	1 2	1	0 2	0 3	0	3	0	0	0	11	9 18
Charleston Columbia Greenville	1 0 0	1 1 0	0 0 0	0 1 1	0	0 0	0	0	0	0 0 1	33 4
Georgia: Atlanta Brunswick	3 0	3 0	2	0	0	9	0	1 0 2	1 0 0	1 0 0	64 2 33
Savannah Florida: Tampa	0	0	0	24	0	2	1	0	0	0	37
EAST SOUTH CEN- TRAL											,
Kentucky: Covington Louisville	1 5	3 6	0	0	0	2 5	0	0	0	0	33 106
Tennessee: Memphis	4	7	1	2	0	2	0	0	0	0	77 47
Nashville Alabama: Birmingham	8	4	0 2	8	0	4	0	0	0	5	77
Mobile	0	1 2	0	0	0	0	0	0	- 0	0	23

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City reports for week ended January 16, 1926-Continued.

	Scarle	t fever		Smallp			Tuber	T	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Case re- porte	re	<b>j-</b>	culo- sis, death re-		Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST SOUTH CENTRAL												Y
Arkansas: Fort Smith Little Rock	1 2	1 0	0		0	ō-	3	- 0	0	ā	0	
Louisiana: New Orleans Shreveport Oklahoma:	4	6 1	3		5	0	22 0		3 0	2 1	1 0	181 31
Oklahoma City Texas:	2	4	1		0	0	1	1	0	0	1	19
Dallas Galveston Houston San Antonio	4 0 2 1	8 2 1 2	0 0 0	2	1 3 5 0	0	5 1 5 13	0	0 0	0 1 0 0	20 0 0	68 23 60 60
MOUNTAIN					1			1	1			-
Montana: Billings Great Falls Helena Missoula Idaho:	2 1 0 1	4 6 1 1	0 2 0 0	1	0 0 0	0 0 0	000	0	0 0 0	0 0 0	0 1 0 0	8 4 6 4
Boise	2	0	1		2	0	0	0	0	0	0	3
Denver Pueblo	10	15 0	4		0	0	8	0	1 0	1 0	52 0	108 11
Arizona: Phoenix		2	0	(	1	0	3	1	0	0	0	11
Utah: Salt Lake City.	3	7	4		0	0	0	0	0	a	16	27
Nevada: Rene	. 0	1	0		0	Q	0	0	o	0	0	1
PACIFIC					ĺ							
Washington: Seattle Spokane Tacoma	10 4 3	35 16 4	3 5 2	F	2	0	1	0	0	0	4 6 0	 28
Oregon: Portland	0	11	8		4	0	0	0	0	0	1	75
California: Los Angeles	18	28	2 0	8		3	20	2 0	2 0	0	8	217
Sacramento San Francisco.	13	16 16	ī		9	0	13	ò	3	0	Q 6	37 165
		Cen	rebrospi ieningit	prospinal ungitis		arg hal		Pelli	ıgra	Polion tile	nyelitis ( e paralys	infan- is)
Division, State, a	and city	Cas	ses De	aths	Cases	D	eaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
NEW ENGLA	ND				,	Γ						
Massachusetts: Boston Fall River		·	4 0	1	0		0	1 Q	Q Q	1 0	0	0,
MIDDLE ATLA	NTIC	1					· F	-				
New York: New York Pennsylvania: Philadelphia			1	1	6		5	0	0	1	0	0

City reports for week ended January 16, 1926-Continued

	Cerebrospinal meningitis			argic halitis	Pell	agra	Poliomyelitis (infan- tile paralysis)			
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths	
EAST NORTH CENTRAL										
Obio: Columbus	0	0	0	1	a	0	0	0	0	
Illinois: Chicago	0	0	1	0	0	0	1	0	0	
Michigan: Detroit	0	1	2	2	0	0	0	0	0	
Wisconsin: Milwaukee	3	1	0	0	0	0	0	0	0	
WEST NORTH CENTRAL		-			-			Ů	. 2	
Minnesota:	_									
Minneapolis St. Paul	0 1	0	0	0	0	0	0	1 0	1 0	
Missouri: , St. Louis	1	0	0	0	0	0	0	0	0	
SOUTH ATLANTIC									4	
Maryland: Baltimore 1			,		12				0	
West Virginia:	1	1	0	0	0	0	0	0	0	
Huntington	υ	1	U	U	U	U	U	۳		
EAST SOUTH CENTRAL									ŧ	
Alabama: Birmingham	0	0	0	0	2	0	0	1	0	
WEST SOUTH CENTRAL									+	
Louisiana: Shreveport	0	0	0	٥	0	2	0		0	
Texas: Dallas	0	a	0	0	0	1	0	0	0	
MOUNTAIN			Ů			· -			-	
Colorado:										
DenverUtab:	i	0	0	0	0	0	0	1	,1	
Salt Lake City	1	1	0	0	0	0	0	0	0	
PACIFIC									1	
Washington: Spokane	2	0	0	0	0	0	0	0	0	
California: Sacramento	2	0	0	0	0	0	0	0	0	
San Francisco	1	0	1	1	0	0	0	0	0	

¹ Typhus fever, 1 case at Baltimore, Md.

The following table gives the rates per 100,000 population for 103 cities for the three-week period ended January 16, 1926, compared with those for a like period ended January 17, 1925. The population figures used in computing the rates are approximate estimates as of July 1, 1925 and 1926, respectively, authoritative figures for many of the cities not being available. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and more than

29,750,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, December 27, 1925, to January 16, 1926—
Annual rates per 100,000 population—Compared with rates for the corresponding period of 1924-251

DIPHTHERIA CASE RATES

DIFHILIBRIA OADE RAIED							
			Week e	nded—			
	Jan. 3, 1925	Jan. 2, 1926	Jan. 10, 1925	Jan. 9, 1926	Jan. 17, 1925	Jan. 16, 1926	
103 cities	149	129	145	² 167	167	⁸ 146	
New England. Middle Atlantic. East North Central. West North Central. South Atlantic. East South Central West South Central Mountain. Pacific.	249 140 141 171 138 84 141 102 160	139 124 129 154 126 109 146 109 124	247 130 122 139 161 110 137 231 185	139 179 151 283 178 52 189 182 97	173 187 132 247 115 84 185 148 196	144 153 135 253 141 67 120 127 81	
MEA	ASLES CA	ISE RAT	ES				
103 cities	150	601	207	² 1, 092	188	2 977	
New England Middle Atlantic. East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	10	2, 373 550 736 59 460 104 0 82 46	381 168 391 18 79 26 4 129 185	3,094 ² 516 1,761 148 1,280 52 0 55 65	424 157 327 12 42 42 22 259 152	2, 867 3 855 1, 302 127 1, 356 239 22 91 51	
SCARLE	T FEVE	R CASE	RATES				
103 cities	284	221	307	2 292	344	≉ 28₫	
New England. Middle Atlantic. East North Central. West North Central. South Atlantic. East South Central. West South Central. Mountain Pacific	285 227 549 192 158	300 166 243 493 137 99 120 246 205	637 323 166 733 148 210 141 370 180	295 2 253 330 580 158 119 112 237 243	542 292 350 731 246 168 110 518 174	38.8 238 321 548 186 146 90 319 267	
SMA	LLPOX	CASE RA	TES				
108 cities	41	23	55	2 41	56	1 47	
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Papific	25 125 36 341 31 46	0 1 22 18 24 73 22 36 148	0 3 38 213 29 362 62 28 141	0 20 48 65 43 47 52 36 111	0 10 37 187 58 200 31 56 202	0 4 3 37 51 68 57 146 18 286	

^{1.} The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1925 and 1926, respectively.

*New York, N. Y., not included.

Tranton, N. J., not included.

Summary of weekly reports from cities, December 27, 1925, to January 16, 1926— Annual rates per 100,000 population—Compared with rates for the corresponding period of 1924–25—Continued

#### TYPHOID FEVER CASE RATES

		_	Week e	nded—		
	Jan. 3, 1925	Jan 2, 1926	Jan. 10, 1925	Jan. 9, 1926	Jan. 17, 1925	Jan. 16, 1926
103 cities	36	10	32	2 13	20	8 11
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central West South Central Pacific	24 58 26 4 38 37 35 0	7 7 6 6 11 31 47 9	14 49 13 6 52 47 68 9 25	31 2 12 11 2 9 16 22 9	24 21 22 10 19 16 66 0 6	2 8 16 8 4 8 16 13 9
INFL	UENZA	DEATH	RATES	4		
96 cities	18	15	20	2 21	21	\$ <b>2</b> 3
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	2 21 9 8 25 58 48 37 11	12 10 8 15 19 31 43 27 39	17 20 15 13 33 42 39 18 18	9 2 18 12 8 15 83 47 46 57	26 18 14 2 42 42 82 28 11	14 2 16 11 19 23 88 80 64 46
PNEUN	I AINON	EATH R	ATES			
96 cities	195	184	185	2 220	206	⁸ 211
New England Middle Atlantic East North Central West North Central South Atlantic East South Central west South Central West South Central West South Central Mountain Pacific	225 155	210 186 142 117 261 259 312 264 135	117 227 143 87 232 268 247 222 164	246 2 240 176 140 289 332 335 127 220	151 259 143 104 271 173 426 240 145	208 235 153 125 276 285 854 328 167

² New York, N. Y., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively

Group of cities	Number of cities reporting	Number of cities reporting	Aggregate of cities cases	population reporting	Aggregate of cities deaths	population reporting
	cases	deaths	1925	1926	1925	1926
Total	103	96	29, 944, 996	30, 473, 129	29, 251, 658	29, 764, 201
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	12 10 16 14 21 7 8 9	12 10 16 11 21 7 6 9	2, 176, 124 10, 346, 970 7, 481, 656 2, 594, 962 2, 716, 070 993, 103 1, 184, 057 663, 912 1, 888, 142	2, 206, 124 10, 476, 970 7, 655, 436 2, 634, 662 2, 776, 670 1, 004, 953 1, 212, 057 572, 773 1, 934, 084	2, 176, 124 10, 346, 970 7, 481, 656 2, 461, 380 2, 716, 070 993, 103 1, 078, 198 563, 912 1, 434, 245	2, 206, 124 10, 476, 970 7, 655, 436 2, 499, 036 2, 776, 070 1, 004, 953 1, 103, 695 572, 773 1, 469, 144

³ Trenton, N. J., not included.

# FOREIGN AND INSULAR

#### THE FAR EAST

Report for week ended January 2, 1926.—The following report for the week ended January 2, 1926, was transmitted by the Far Eastern Bureau of the health section of the League of Nations' secretariat, located at Singapore, to the headquarters at Geneva:

	Pla	gue	Cho	lera		all- ox		Plague		Cholera		Sm	
Port	Cases	Deaths	Cases	Deaths	Cases	Deaths	Poit		Deaths	Cases	Deaths)	Cases	Deaths
Calcutta Bombay Madras Rangoon Karachi Negapatam Colombo Basra Singapore Port Swettenham Penang Batavia Scorabaya Belawan Deli Padang (Sumatra) Sabang (Rhio) Macassar Sandakan (North Borneo) Manila Zamboanga Bangkok Saigon and Cholom Hongkong Shanghai Amoy Nagasaki Yokohama Simonoseki		0	000000000000000000000000000000000000000	9 0 13 0 0 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30 11 31 70 00 16 00 00 00 00 00 00 00 00 00 00 00 00 00	13 4 4 1 1 1 2 0 0 0 1 2 0 0 0 0 0 0 0 0 0 0 0	Kobe. Osaka Keelung. Fusan Dairen. Adelaide Brisbane. Fremantle. Melbourne Sydney. Rockhampton. Townsville Port Darwin Broome Pert Moresby Honolulu. Suez. Alexandria Port Said. Mombasa (Kenya) Zanzibar Massowah Djibuti. Lourenco Marques Durhan East London. Port Elizabeth Cape Town Port Louis (Mauritius) Seychelles	000000000000000000000000000000000000000	000000000000000000000000000000000000000		000000000000000000000000000000000000000	000001000000000000000000000000000000000	

### ALGERIA

Smallpox—Increased prevalence at Algiers.—An increase in the prevalence of smallpox at Algiers, Algeria, has been noted, with 46 cases reported from December 1 to 10 and 51 cases from December 11 to 20, 1925, as compared with 12 cases reported during the last decade in the month of November, 1925. Under date of January 7, 1926, vaccination was stated to have been ordered for all persons in Algiers irrespective of age, and including temporary residents living in the vicinity of Algiers and Tizi Ouzou.

#### CANADA

Communicable diseases—January 3 to 16, 1926.—The following table shows the numbers of cases of certain communicable diseases in seven Provinces of Canada during the two-week period from January 3 to 16, 1926. The information was supplied by the Canadian Ministry of Health.

	Nova Scotia	New Bruns- wick	Quebec	Ontario	Mani- toba	Sas- katch- ewan	Alberta	Total
Cerebrospinal fever: Week ended Jan. 9, 1926. Week ended Jan. 16, 1926. Lethargic encephalitis: Week ended Jan. 9, 1926.			1	1 3				1 4
Week ended Jan. 16, 1926					1			1
Poliomyelitis: Week ended Jan. 9, 1926 Week ended Jan. 16, 1926				2	1			3
Smallpox: Week ended Jan. 9, 1926 Week ended Jan. 16, 1926 Typhoid fever:				21 14	14	1 4	2	36 20
Week ended Jan. 9, 1926 Week ended Jan. 16, 1926		1 2	8 11	13 9	2 3	17 41	2	43 66

## CANARY ISLANDS

Plague—Las Palmas—Vicinity of Santa Cruz de Teneriffe.—Plague has been reported in the Canary Islands as follows: December 24, 1925—La Laguna, three cases with two deaths (vicinity of Santa Cruz de Teneriffe); Las Palmas, one case.

#### **ECUADOR**

Plague—Guayaquil—December 16-31, 1925.—During the two week period ended December 31, 1925, 16 cases of plague with four deaths were reported at Guayaquil, Ecuador.

Plague-infected rats.—During the period under report, 12,794 rats were reported taken and 67 rats found plague infected.

# GREAT BRITAIN (SCOTLAND)

Measles—Glasgow.1—During the week ended January 2, 1926, 246 cases of measles with 17 deaths were reported at Glasgow, Scotland.

#### MEXICO

Epidemic smallpox—San Luis Potosi.—Smallpox has been reported present in epidemic form at San Luis Potosi, Mexico, with 26 deaths from the disease from December 20, 1925, to January 16, 1926. The number of cases has not been reported.

Public Health Reports, Jan. 22, 1926, p. 154.

#### PERU

Plague—Huacho.—Information has been received under date of January 26, 1926, of the occurrence of 15 cases of plague at Huacho, a port situated about 60 miles north of Callao, Peru. Huacho is an occasional port of call for vessels bound for the Canal Zone and a discharging port for some vessels southward bound. Plague was reported present at Huacho in July, 1925, with three cases and one death.

## UNION OF SOUTH AFRICA

Plague—Cape Province—Orange Free State.—Plague has been reported in the Union of South Africa as follows: Week ended December 12, 1925—Cape Province, in Middleburg district, one case, European. Orange Free State, one fatal case occurring on a farm in Bothaville district, in a native.

#### VIRGIN ISLANDS

Communicable diseases—December, 1925.—During the month of December, 1925, communicable diseases were reported in the Virgin Islands of the United States as follows:

Island and disease	Cases	Remarks
St. Thomas and St. John: Chancroid Dengue Filartasis. Gonorrheu Pellagra Syphilis St. Croix: Chancroid Filariasis. Gonorrhea Syphilis Tuberculosis	1 1 1 1 1 4 1 7 2 2 1 2 1	From St. Croix; Bancrotti.  Primary, 2; secondary, 3; of aorta, 1; of eye, 1  Bancrotti.  Secondary. Chronic, pulmonary.

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

The reports contained in the following tables must not be considered as complete or final as regard either the lists of countries included or the figures for the particular countries for which reports are given

# Reports Received During Week Ended February 5, 1926 1

-			·	
Place	Date	Cases	Deaths	Remarks
India	Dec. 6-12 Dec. 13-26 Sept. 20-Oct. 17 Dec. 14-26 Nov. 29-Dec. 12 do Nov. 8-21 July-August	23 69 288 5 71 38 5 4	30 26 2 2 35 26	Nov. 15-21, 1925: Cases, 2,18 deaths, 1,323.
Siam: Bangkok	Dec. 6-12	39	26	

¹ From medical officers of the Public Health Service, American consuls, and other sources.

# Reports Received During Week Ended February 5, 1926—Continued

## PLAGUE

Place	Date	Cases	Deaths	Remarks
Canary Islands: Santa Cruz de Teneriffe	Dec. 21-27	1		Officially reported Dec. 24, 1925.
China: Nanking Do Ecuador:	Dec. 13-26 Dec. 27-Jan. 2			Present.
Guayaquıl	Dec. 16-31	16	4	infected rats found, 67.
India Bombay Calcutta	Dec. 6-12 Dec. 6-12	1	1 1	Nov. 15-21, 1925: Cases, 1,164; deaths, 696.
Karachi Rangoon Java:	Dec. 6-12	1	1	Work ev
Djokjakarta Kediri Rembang	Dec. 7			Epidemic. One locality. Do. Do.
Soerabaya Mauritius Nigeria	Nov. 22-28 Oct. 18-Nov 14 August - Septem-	6	6 4 267	370.
Peru: Huacho	ber.	15		Port. Situated 60 miles north of Callao, Reported under
RussiaSenegal	July-August	139 23	13	date of Jan. 26, 1926.
Siam. Union of South Africa	Sept. 6-Oct. 3		20	Dec. 6-12, 1925; Cases, 2; deaths, 1. One case occurred in Euro-
Cape Province— Middleburg District Orange Free State—	Dec. 6-12	1		pean. European.
Orange Free State— Bothaville District	do	1	1	Native. On farm.

#### SMALLPOX

Algeria:	Dec. 11-20	51		
Australia:	1,60. 11-20	0,		
Queensland— Brisbane	Dec. 9-15:	1		
British East Africa: Kenya—				,
Mombasa	Dec. 6-12	4	2	From Tivi, 9 miles distant on mainland.
British South Africa:		İ	}	
Southern Rhodesia	Dec. 4-10	1		
Canada				Jan. 3-16, 1926: Cases, 56,
Alberta	Jan. 10-16	2		
. British Columbia—			]	
Vancouver	Jan. 4-10	1		
Manitoba	Jan. 3-9	14		
Winnipeg	Jan. 17-23	1		
Ontario	Jan. 3-16	35		1
Toronto.	Jan. 10-16	18		
Saskatchewan	Jan. 3-16	5	]	
China:		l	1	
Amoy	Dec. 6-19			Present.
Antung	Dec. 14-20	1		_
Chungking.	Dec. 20-26			Do.
Hankow	do	1		_
	Dec. 6-26			Da.
_ Do	Dec. 27-Jan. 2			Do.
France	October	66		l.
Gold Coast	September	14	4	
Great Britain:		ł	1 -	,
England and Wales	Dec. 27-Jan. 2	203		
Hull	Dec. 27-Jan. 9	14		, , ,
Newcastle-on-Tyne	Dec. 27-Jan. 2	1		
Nottingham	Dec. 13-26	5	]	
	_			

# Reports Received During Week Ended February 5, 1926-Continued

## SMALLPOX-Continued

	Date	Cases	Deaths	Remarks
*				
India			7	Nov. 15-21, 1925; Cases, 1,842
Bombay	Nov. 29-Dec. 12	7		deaths, 348.
Calcutta	Dec. 6-12	8	6	
Karachi	Dec. 13-19	3		
Madras	Dec. 13-26	5	1	
Rangoon	Dec. 6-12	2	1	
Iraq	Sept. 20-Oct. 17	40	16	
(taly	Oct. 4-31	12		
lava:	000. x 022222222			
Soerabaya	Nov. 22-28	51	4	
Mexico	2101. 22 20222222	01	-	September, 1925: Deaths, 252.
Aguascalientes	Jan. 3-16		3	Deptember, rezo. Deaths, 202.
Guadalaiana	Jan. 12-18		1	
Guadalajara	Jan. 12-10	1	-	To also 31 mm
Mexico ČitySan Luis Potosi	Jan. 3-9			Including municipalities in Fed
San Luis Potosi	Dec. 20-Jan. 16		16	eral District.
Torreon	Dec. 1-31		36	
Nigeria	August-September	103	1	
Poland				Nov. 1-7, 1925: Cases, 8.
Portugal·				
Oporto	Dec. 27-Jan. 2	1	l	
Russia	May-June	2, 333		Later than previously published
Do	July-August	760		
Spain:	amil-wagass	,00		reports.
				77 1005. Theather 10
Madrid				Year 1925: Deaths, 18.
Malaga	Dec. 27-Jan. 2		1	
Valencia	do	1		
Switzerland	Oct. 25-Nov. 21	26		
Tunisia:				
Tunis	Dec. 21-31		1	
Do	Jan. 1-10	1		
Union of South Africa:	100000	-		
Transvaal—		ł	1	
Pretoria District	Dec. 6-12	l	'	Outbreaks. In native com
FIGURE DISCICL	Dec. 0-12			pound.
· ·	<b>[</b>		1	pound.
	<del>,</del>			<del>,                                     </del>
Algeria:		l	i	
A 1-1			1	
Algiers	Dec. 11-20	1		
Algiers	Dec. 11-20 September-Octo-	1 26	2	
Algiers Bulgaria	September-Octo-	1 26	2	
Bulgaria	Dec. 11-20	1 26	2	
Bulgaria China:	September-Octo- ber.		2	
Bulgaria China: Antung	September-Octo- ber. Dec. 21-27	1	2	
China: Antung Czechoslovakia	September-Octo- ber.  Dec. 21-27	1 8	2	
Bulgaria China: Antung Czechoslovakia France	September-Octo- ber.  Dec. 21-27	1 8 4	2	
Bulgaria China: China: Czechoslovakia. France Germany	September-Octo- ber.  Dec. 21-27	1 8 4 1	2	
Bulgaria China: Antung Czechoslovakia France Germany Lithuania	September-Octo- ber.  Dec. 21-27	1 8 4	2	Gutturbur voor Dudha si
Bulgaria China: Antung Czechoslovakia France Germany Lithuania	September-Octo- ber. Dec. 21-27	1 8 4 1 1	2	September, 1925: Deaths, 25.
Bulgaria China: Antung Czechoslovakia France Germany Lithuania	September-Octo- ber.  Dec. 21-27	1 8 4 1	2	Including municipalities in Fed
Bulgaria China: Antung. Czechoslovakia France. Germany Lithuania. Mexico. Mevico City.	September-Octo- bor.  Dec. 21-27. October. July-October October Jan. 3-9.	1 8 4 1 1	2	September, 1925: Deaths, 25. Including municipalities in Federal district.
Bulgaria China: Antung Czechoslovakia. France. Germany Lithnania. Mexico. Mexico City. Morocco.	September-Octo- ber. Dec. 21-27	1 8 4 1 1	2	Including municipalities in Fed eral district.
Bulgaria China: Antung Czechoslovakia. France. Germany Lithnania. Mexico. Mexico City. Morocco.	September-Octo- bor.  Dec. 21-27. October. July-October October Jan. 3-9.	1 8 4 1 1	2	Including municipalities in Fed eral district.
Bulgaria China:	September-Octo- ber.  Dec. 21-27. October. July-October. Oct. 25-31. October.  Jan. 3-9.  August.	1 8 4 1 1	2	Including municipalities in Federal district.  Nov. 1-14, 1925: Cases, 88
Bulgaria China: Antung Czechoslovakia France Germany Lithuania Mexico Mexico City Morocco Poland	September-Octo- ber. Dec. 21-27. October. July-October. Oct. 25-31. October. Jan. 3-9. August.	1 8 4 1 1 3 3		Including municipalities in Federal district.
Bulgaria China: Atung Czechoslovakia. France Germany Lithuania. Mexico. Mexico City. Morocco Poland Rumania.	September-Octo- bor.  Dec. 21-27 October July-October October  Jan. 3-9  August  July	1 8 4 1 1 3 3	9	Including municipalities in Federal district.  Nov. 1-14, 1925: Cases, 88 deaths, 11.
Bulgaria China: Atung Czechoslovakia. France Germany Lithuania. Mexico. Mexico City. Morocco Poland Rumania.	September-Octo- ber. Dec. 21-27. October. July-October. Oct. 25-31. October. Jan. 3-9. August.	1 8 4 1 1 3 3		Including municipalities in Federal district.  Nov. 1-14, 1925: Cases, 88 deaths, 11.  Later than previously published.
Bulgaria China: Antung Czechoslovakia. France. Germany Lithnania. Mexico. Mexico City.  Morocco Poland. Rumania. Russia.	September-Octo- bor.  Dec. 21-27. October. July-October. Oct. 25-31. October.  Jan 3-9.  August.  July. May-June.	1 8 4 1 1 3 3 3 74 10, 680		Including municipalities in Federal district.  Nov. 1-14, 1925: Cases, 88 deaths, 11.
Bulgaria China: Antung Czechoslovakia. France. Germany Lithuania. Mexico Mexico Merico City.  Morocco Poland. Rumania Russia.  Do.	September-Octo- bor.  Dec. 21-27 October July-October October  Jan. 3-9  August  July	1 8 4 1 1 3 3		Including municipalities in Federal district.  Nov. 1-14, 1925: Cases, 88 deaths, 11.  Later than previously published reports.
Bulgaria China: Antung Czechoslovakia. France. Germany. Lithuania. Mexico. Mexico City. Morocco Poland. Rumania. Russia. Do. Union of South Africa.	September-Octo- bor.  Dec. 21-27. October. July-October. Oct. 25-31. October.  Jan 3-9.  August.  July. May-June.	1 8 4 1 1 3 3 3 74 10, 680		Including municipalities in Federal district.  Nov. 1-14, 1925: Cases, 88 deaths, 11.  Later than previously published reports.  Dec. 6-12, 1925: Cases,
Bulgaria China: Antung Czechoslovakia. France. Germany Lithuania. Mexico. Mexico City.  Morocco. Poland. Rumania. Russia.  Do. Union of South Africa. Cape Province.	September-Octo- bor.  Dec. 21-27. October. July-October. Oct. 25-31. October.  Jan. 3-9. August.  July-May-June. July-August.	1 8 4 1 1 3 3 3 		Including municipalities in Federal district.  Nov. 1-14, 1925: Cases, 88 deaths, 11.  Later than previously published reports.  Dec. 6-12, 1925: Cases, deaths, 1.
Bulgaria China: Antung Czechoslovakia. France. Germany Lithuania. Mexico Mexico City.  Morocco Poland Rumania. Russia.  Do Union of South Africa. Cape Province— Middleburg District	September-Octo- bor.  Dec. 21-27. October. July-October. Oct. 25-31. October.  Jan 3-9.  August.  July. May-June.	1 8 4 1 1 3 3 3 74 10, 680		Including municipalities in Federal district.  Nov. 1-14, 1925: Cases, 88 deaths, 11.  Later than previously published reports.  Dec. 6-12, 1925: Cases,
Bulgaria China: Antung Czechoslovakia. France. Germany. Lithuania. Mexico. Mexico City.  Morocco. Poland. Rumania. Russia. Do. Lution of South Africa. Cape Province— Middleburg District Orange Free State—	September-Octo- bor.  Dec. 21-27. October. July-October. Josephin September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September	1 8 4 1 1 3 3 3 		Including municipalities in Federal district.  Nov. 1-14, 1925: Cases, 88 deaths, 11.  Later than previously published reports.  Dec. 6-12, 1925: Cases, deaths, 1. European. On farm.
Bulgaria China: Antung Czechoslovakia. France. Germany. Lithuania. Mexico. Mexico City.  Morocco. Poland. Rumania. Russia. Do. Lution of South Africa. Cape Province— Middleburg District Orange Free State—	September-Octo- bor.  Dec. 21-27. October. July-October. Josephin September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September	1 8 4 1 1 3 3 3 		Including municipalities in Federal district.  Nov. 1-14, 1925: Cases, 88 deaths, 11.  Later than previously published reports.  Dec. 6-12, 1925: Cases, deaths, 1.  European. On farm.  Outbreaks.
Bulgaria China: Antung Czechoslovakia. France. Germany Lithuania. Mexico Mexico Mexico City.  Morocco Poland Rumania. Russia.  Do Union of South Africa Cape Province— Middleburg District Orange Free State— Bethulia District.	September-Octo- bor.  Dec. 21-27 October July-October Jan. 3-9 August  July-May-June July-August  Dec. 6-12 do	1 8 4 1 1 3 3 3 		Including municipalities in Federal district.  Nov. 1-14, 1925: Cases, 88 deaths, 11.  Later than previously published reports.  Dec. 6-12, 1925: Cases, deaths, 1. European. On farm.
Bulgaria China: Antung Czechoslovakia. France. Germany. Lithuania. Mexico. Mexico City.  Morocco. Poland. Rumania. Russia. Do. Lution of South Africa. Cape Province— Middleburg District Orange Free State—	September-Octo- bor.  Dec. 21-27. October. July-October. Josephin September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September	1 8 4 1 1 3 3 3 4 10, 680 3, 136		Including municipalities in Federal district.  Nov. 1-14, 1925: Cases, 88 deaths, 11.  Later than previously published reports.  Dec. 6-12, 1925: Cases, deaths, 1. European. On farm.  Outbreaks.
Bulgaria China: Antung Czechoslovakia. France. Germany Lithuania. Mexico. Mexico. Mexico City.  Morocco. Poland. Rumania. Russia. Do. Union of South Africa. Cape Province— Middleburg District Orange Free State— Bethulia District.	September-Octo- bor.  Dec. 21-27 October July-October Jan. 3-9 August  July-May-June July-August  Dec. 6-12 do	1 8 4 1 1 3 3 3 4 10, 680 3, 136		Including municipalities in Federal district.  Nov. 1-14, 1925: Cases, 88 deaths, 11.  Later than previously published reports.  Dec. 6-12, 1925: Cases, deaths, 1.  European. On farm.  Outbreaks.
Bulgaria China: Antung Czechoslovakia. France. Germany Lithuania. Mexico. Mexico. Mexico City.  Morocco. Poland. Rumania. Russia. Do. Union of South Africa. Cape Province— Middleburg District Orange Free State— Bethulia District.	September-Octo- ber.  Dec. 21-27. October. July-October.  Jan. 3-9  August.  July-May-June.  July-August  Dec. 6-12.  do	1 8 4 1 1 3 3 3	9	Including municipalities in Federal district.  Nov. 1-14, 1925: Cases, 88 deaths, 11.  Later than previously published reports.  Dec. 6-12, 1925: Cases, deaths, 1.  European. On farm.  Outbreaks.
Bulgaria China: Antung Czechoslovakia. France. Germany Lithuania. Mexico. Mexico. Mexico City.  Morocco. Poland. Rumania. Russia. Do. Union of South Africa. Cape Province— Middleburg District Orange Free State— Bethulia District.	September-Octo- bor.  Dec. 21-27 October July-October Jan. 3-9 August  July-May-June July-August  Dec. 6-12 do	1 8 4 1 1 3 3 3	9	Including municipalities in Federal district.  Nov. 1-14, 1925: Cases, 88 deaths, 11.  Later than previously published reports.  Dec. 6-12, 1925: Cases, deaths, 1.  European. On farm.  Outbreaks.
Bulgaria China: Antung Czechoslovakia. France. Germany. Lithuania. Mexico. Mevico City.  Morocco Poland Rumania. Russia.  Do. Union of South Africa. Cape Province— Middleburg District. Orange Free State— Bethulia District. Bothaville District.	September-October.  Dec. 21-27. October. July-October.  Jan. 3-9.  August.  July-May-June. July-August  Dec. 6-12.  do.  YELLO	1 8 4 1 1 1 3 3 3 3 4 10, 680 3, 136 1 1 W FEV	9	Including municipalities in Federal district.  Nov. 1-14, 1925: Cases, 88 deaths, 11.  Later than previously published reports.  Dec. 6-12, 1925: Cases, deaths, 1.  European. On farm.  Outbreaks.
Bulgaria China: Antung Czechoslovakia. France. Germany Lithuania. Mexico Mexico City.  Morocco Poland. Rumania. Rumania. Rumania Russia.  Do. Union of South Africa. Cape Province— Middleburg District. Orange Free State— Bethulia District. Bothaville District.	September-October.  Dec. 21-27. October. July-October. Jon. 3-9. August.  July-May-June. July-August.  Dec. 6-12.  do.  YELLO  September.	1 8 4 1 1 1 3 3 3 3 10,680 3,136 1 1 1 W FEV	9 	Including municipalities in Federal district.  Nov. 1-14, 1925: Cases, 88 deaths, 11.  Later than previously published reports.  Dec. 6-12, 1925: Cases, deaths, 1.  European. On farm.  Outbreaks.
Bulgaria China: Antung Czechoslovakia. France. Germany Lithuania. Mexico Mexico City.  Morocco. Poland. Rumania. Rumania. Rumania Cape Province Middleburg District. Orange Free State— Bethulia District. Bothaville District.	September-October.  Dec. 21-27. October. July-October.  Jan. 3-9.  August.  July-May-June. July-August  Dec. 6-12.  do.  YELLO	1 8 4 1 1 1 3 3 3 3 4 10, 680 3, 136 1 1 W FEV	9	Including municipalities in Federal district.  Nov. 1-14, 1925: Cases, 88 deaths, 11.  Later than previously published reports.  Dec. 6-12, 1925: Cases, deaths, 1.  European. On farm.  Outbreaks.
Bulgaria China: Antung Czechoslovakia. France. Germany. Lithuania. Mexico. Mevico City.  Morocco Poland Rumania. Russia.  Do. Union of South Africa. Cape Province— Middleburg District. Orange Free State— Bethulia District. Bothaville District.	September-October.  Dec. 21-27. October. July-October. Jon. 3-9. August.  July-May-June. July-August.  Dec. 6-12.  do.  YELLO  September.	1 8 4 1 1 1 3 3 3 3 10,680 3,136 1 1 1 W FEV	9 	Including municipalities in Federal district.  Nov. 1-14, 1925: Cases, 88 deaths, 11.  Later than previously published reports.  Dec. 6-12, 1925: Cases, deaths, 1. European. On farm.  Outbreaks.

# Reports Received from December 26, 1925, to January 29, 1926 ¹ CHOLERA

Place	Date	Cases	Deaths	Remarks
India Calcutta Madras Rangoou Indo-China	Nov. 1-28 Nov. 15-Dec. 12 Nov. 8-Dec. 5	101 77 4	89 31 4	Oct. 18-Nov. 14, 1925: Cases, 6,544; deaths, 3,790.  September, 1925: Cases, 9; deaths,
Province— Annam Cochin China Tonkin  Japan Philippine Islands: Manila Provinces— Bataan Bulacan Do Laguna Nueva Ecija Panpanga Do Rizal Russia Siam: Bangkok Do On vessel: Steamship	do do do Aug. 30-Sept 19  Nov 9-Dec. 5  Nov. 30-Dec. 13  Oct. 18-Nov. 7  Nov. 23-Dec. 13  do  Nov. 1-7  Nov. 23-Dec. 13  Begt. 27-Oct. 24  Dec. 7-13  May-June  Oct. 4-Nov. 14  Nov. 22-Dec. 5	6 1 42 70 23 7	2 3 3 6 8 64 334 13 2 1 1 300 211 12 12 12 12 12 12 12 12 12 12 12 12	5. September, 1924: Cases, 7; deaths, 4. (European cases, 2) September, 1924: None September, 1924: None. September, 1924: None.  Arrived at Bangkok, Siam; 9 cases in coolie passengers.

## PLAGUE

1	1	f	<b>1</b> 1	
Brazil: Bahia: Santos British East Africa: Ken ya—	Nov. 8-14 Dec. 8-21	2	2	
Kisumu	Nov. 22-Dec. 5	1	2	'
		103	85	
Uganda Protectorate	September, 1925	103	60	•
Canary Islands:	D 10	2		
Santa Cruz de Teneriffe	Dec. 18	25		
Ceylon:			_	,
Colombo		3	3	
Do	Nov. 29-Dec. 5			One plague rodent.
China:		l	[	
Nanking.	Nov. 15-Dec. 5			Prevalent.
Ecnador:		1		
Gnayaquil	Nov. I-Dec. 15	15	8	Rats taken, Nov. 1-Dec. 15, 1925:
			-	36,576; rats found infected, 214.
Egypt			}	Jan. 1-Dec. 9, 1925; Cases, 138.
Beni Suef	Nev. 18, 1925.	1	1	Corresponding period, 1924:
Fayoum Province	Dec. 3-9		Î	Cases, 365.
Greece:	Dec. 3-a			Caaca, ooo.
	37 1 00	10		Tueladian Diames
Athens		18	4	Including Piræus.
Patras	Nev. 13-Dec. 12	4	1	
India				Oct. 18-Nov. 7, 1925: Cases, 4,776;
Karachi			2	deaths, 3,247.
Madras	Oct. 25-Nov. 7	75	41	
Do	Nev. 15-21.	35	22	
Rangoon		18	11	
Indo-China				September, 1925; Cases, 17;
				deaths, 16. September, 1924:
Province-		l	1	Cases, fatal, 12.
Cambodia	Sept. 1-30	11	11	
C MILLOUGIA	Dobo: 1-00	1 11	1 11	n Depresentation, 1027. Custos, 8, Uchanis,
Cochin China	do	6		September, 1924: 1 case, I death.
Count Cinia	do	, 0	į ir	i mcheemmer* mes. I came r asser-

¹ From medical officers of the Public Health Service, American consuls, and other sources.

# Reports Received from December 26, 1925, to January 29, 1926—Continued

## PLAGUE-Continued

Place	Date	Cases	Deaths	Remarks
ava:				
Batavia	Oct. 24-Nov. 6	94	89	Province.
Do	Oct. 24-Nov. 6 Nov. 14-Dec. 4	169	159	210722001
Cheribon Djokjakarta	Sept. 27-Oct. 17		166	
Diokiakarta	NAT U			Epidemic in one locality.
Pekalongan	Sept. 27-Oct. 17 Oct. 11-Nov. 21 Sept. 27-Oct. 17		42	-president in one recurry:
Soerabaya	Oct. 11-Nov. 21	30	30	
Tegal	Sent 27-Oct 17	ő	6	
Aadagascar;	DCD0. 21 OC0. 11 111	J	١	
Province-				
	Sept. 16-Oct. 31	20	20	
Itasy Moramanga	do	17	17	
Tananarive	do	174	159	
		1/2	108	
Town-	Comt 10 Oct 15		2	
Fort Dauphin	Sept. 10-Oct. 13	5	ا ۾	
Tamatave (port)	Sept. 16-Oct. 15 Sept. 16-30 Oct. 16-31	3	2	
Do	Oct. 16-31	4	4	
Tananarive	Sept. 16-30	2	2	
Mauritius Island	Sept. 20-Oct. 17	5	5	
Russia	May-June	67		
Senegal	September, 1925	22	12	
3iam	May-June September, 1925 Aug. 23-Sept. 5	23	20	
Bangkok	Nov. 15-28	3	3	
Straits Settlements:		1		
Singapore	Nov. 1-21	5	5	
Syria:		ì		
Beirut	Nov. 11-20	1		
Union of South Africa:				
Cape Province—	ĺ	İ		
Steynsburg district	Nov. 15-21	1		Native. On farm.
Orange Free State-		-		
Boshof district	Nov. 29-Dec. 5	1	1	In native.
		_		
	SMAI	LPOX		
Algiers	SMA1	LPOX		
AlgiersArabia:	Nov. 21-Dec. 10	58		
Algiers				Imported.
AlgiersArabia; AdenArgentina:	Nov. 21-Dec. 10 Nov. 29-Dec. 5	58		Imported.
Algiers	Nov. 21-Dec. 10	58	1	Imported.
Algiers	Nov. 21-Dec. 10 Nov. 29-Dec. 5 October, 1925	58		Imported.
Algiers	Nov. 21-Dec. 10 Nov. 29-Dec. 5	58	1 72	Imported.
Algiers	Nov. 21-Dec. 10 Nov. 29-Dec. 5 October, 1925	58		Imported.
Arabia: AdenArgentina: RosarioBrazii: Rio de JaneiroBritish East Africa:	Nov. 21-Dec. 10 Nov. 29-Dec. 5 October, 1925	58		Imported.
Algiers	Nov. 21-Dec. 10 Nov. 29-Dec. 5 October, 1925 Nov. 1-28	58 1 134	72	Imported.
Algiers	Nov. 21-Dec. 10 Nov. 29-Dec. 5 October, 1925 Nov. 1-28 Nov. 15-Dec. 5	58 1 134		Imported.
A Algiers	Nov. 21-Dec. 10 Nov. 29-Dec. 5 October, 1925 Nov. 1-28	58 1 134	72 8	Imported.
Algiers. Arabia: Adem. Argentina: Rosario. Brazii: Rio de Janeiro. British East Africa: Kenya- Mombasa. Uganda Protectorate. British Stath Africa:	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 1-28  Nov. 15-Dec. 5  Sept. 1-30	134 10 7	72 8	-
Alglers. Arabia: Aden. Aden. Argentina: Rosario. Brazil: Rio de Janeiro. British East Ainea: Kenya- Mombasa. Uganda Protectorate British South Airlea: Southern Rhodesia.	Nov. 21-Dec. 10 Nov. 29-Dec. 5 October, 1925 Nov. 1-28 Nov. 15-Dec. 5	58 1 134	72 8	Native.
Alglers Arabia: Aden Argentina: Rosario Brazii: Rio de Janeiro British East Africa: Kenya- Mombasa. Uganda Protectorate British South Africa: Southern Rhodesia	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 1-28  Nov. 15-Dec. 5  Sept. 1-30	134 10 7	72 8	Native. Sept. 13-Jan. 2: In seven pro
Algiers. Arabia: Aden. Argentina: Rosario. Brazii: Rio de Janeiro. British East Ainea: Kenya- Mombasa. Uganda Protectorate. British South Africa: Southern Rhodesia. Canada. Alberta-	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 1-28  Nov. 15-Dec. 5  Sept. 1-30  Nov. 13-19	134 10 7	72 8	Native. Sept. 13-Jan. 2: In seven pro
Alglers. Arabia: Aden. Argentina: Resario. Brazil: Rio de Janeiro. British East Africa: Kenya- Mombasa. Uganda Protectorute. British South Africa: Southern Rhodesia. Canada. Alberta- Calgary.	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 1-28  Nov. 15-Dec. 5  Sept. 1-30	134 10 7	72 8	Native. Sept. 13-Jan. 2: In seven pro- inces, 186 cases. From Drumheller, vicinity
Algiers. Arabia: Adem. Argentina: Rosario. Brazii: Rio de Janeiro. British East Africa: Kenya- Mombasa. Uganda Protectorate. British South Africa: Southern Rhodesia. Canada Alberta- Caigary. Manitoba-	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 1-28  Nov. 15-Dec. 5  Sept. 1-30  Nov. 13-19  Dec. 13-19	134 10 7 1	72 8	Native. Sept. 13-Jan. 2: In seven pro
Alglers. Arabia: Aden. Argentina: Rosario. Brazil: Rio de Janeiro. British East Africa: Kenya- Mombasa. Uganda Protectorate British South Africa: Southern Rhodesia. Canada. Alberta- Calgary. Manitoba- Winnipeg.	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 1-28  Nov. 15-Dec. 5  Sept. 1-30  Nov. 13-19  Dec. 13-19	134 10 7 1	72 8	Native. Sept. 13-Jan. 2: In seven pro- inces, 186 cases. From Drumheller, vicinity
Algiers Arabia: Adem Argentina: Rosario Brazii: Rio de Janeiro British East Africa: Kenya— Mombasa Uganda Protectorate British South Africa: South Africa: Southern Rhodesia Canada Alberta— Caigary Manitoba— Winnipes Do	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 1-28  Nov. 15-Dec. 5  Sept. 1-30  Nov. 13-19	134 10 7 1	72 8	Native. Sept. 13-Jan. 2: In seven pro- inces, 186 cases. From Drumheller, vicinity
Algiers. Arabia: Aden. Argentina: Resario. Brazil: Rio de Janeiro. British East Ainea: Kenya- Mombasa. Uganda Protectorate. British South Africa: Southern Rhodesia. Canada. Alberta- Caigary. Manitoba- Winnipeg. Do. New Brunswick-	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 1-28  Nov. 15-Dec. 5  Sept. 1-30  Nov. 13-19  Dec. 13-19  do  Jan. 3-9	134 10 7 1 1 2 6	72 8	Native. Sept. 13-Jan. 2: In seven pro- inces, 186 cases. From Drumheller, vicinity
Algiers Arabia: Aden Argentina: Rosario Brazii: Rio de Janeiro British East Africa: Kenyse— Mombasa Uganda Protectorate British South Africa: Southern Rhodesia Canada Alberta— Caigary Manitoba— Winnipeg Do. New Brunswick— Northumberland	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 1-28  Nov. 15-Dec. 5  Sept. 1-30  Nov. 13-19  Dec. 13-19	134 10 7 1	72 8	Native. Sept. 13-Jan. 2: In seven profinces, 186 cases. From Drumheller, vicinity Calgary.
Algiers. Arabia: Adem. Argentina: Adem. Brazil: Rio de Janeiro. British East Africa: Kenya- Mombasa. Uganda Protectorate. British South Africa: Southern Rhodesia. Canada. Alberta- Caigary- Manitoba- Winnipeg. Do. New Brunswick- Northumberland. Ontario.	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 1-28  Nov. 15-Dec. 5  Sept. 1-30  Nov. 13-19  Dec. 13-19  Jan. 3-9  Dec. 6-13	134 10 7 1 1 2 6	72 8	Native. Sept. 13-Jan. 2: In seven profinces, 186 cases. From Drumheller, vicinity Calgary.
Algiers. Arabia: Aden. Argentina: Rosario. Brazil: Rio de Janeiro. British East Africa: Kenya- Mombasa. Uganda Protectorate British South Arica: Southern Rhodesia. Canada. Alberta- Calgary. Manitoba- Winnipeg. Do. New Brunswick- Northumberland Ontario. Ottawa.	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 15-Dec. 5  Sept. 1-30  Nov. 13-19  Dec. 13-19  Jan. 3-9  Dec. 6-13  Dec. 6-12.	134 10 7 1 1 2 6 1 1	72 8	Native. Sept. 13-Jan. 2: In seven profinces, 186 cases. From Drumheller, vicinity Calgary.  December, 1925: Cases, deaths, 1. Occurring in
Algiers Arabia: Aden Argentina: Aden Resario. Brazil: Rio de Janeiro. British East Africa: Kenya- Mombasa. Uganda Protectorate British South Africa: Southern Rhodesia. Canada Canada Alberta- Calgary Manitoba- Winnipeg. Do. New Brunswick- Northumberland Ontario. Ottawa. Do.	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 15-Dec. 5  Sept. 1-30  Nov. 13-19  Dec. 13-19  Jan. 3-9  Dec. 6-13  Dec. 6-12.	134 10 7 1 1 2 6 1	72 8	Native. Sept. 13-Jan. 2: In seven profinces, 186 cases. From Drumheller, vicinity Calgary.
Algiers. Arabia: Aden. Argentina: Rosario. Brazil: Rio de Janeiro. British East Ainea: Kenya- Mombasa. Uganda Protectorate. British South Africa: Southern Rhodesia. Canada. Alberta- Caigary. Manitoba- Winnipeg. Do. New Brunswick- Northumberland. Ontario. Ottawa Do. Toronto.	Nov. 21-Dec. 10 Nov. 29-Dec. 5 October, 1925 Nov. 15-Dec. 5 Sept. 1-30 Nov. 13-19 Dec. 13-19 Dec. 6-13 Dec. 6-12 Jan. 3-9 Dec. 6-12 Jan. 3-9 Dec. 6-12 Jan. 3-9 Dec. 6-17 Jan. 3-9 Dec. 27-Jan. 2	134 100 7 1 1 2 6 1 2 1	72 8	Native. Sept. 13-Jan. 2: In seven profinces, 186 cases. From Drumheller, vicinity Calgary.  December, 1925: Cases, deaths, 1. Occurring in
Algiers Arabia: Aden Argentina: Aden Resario Brazii: Rio de Janeiro British East Africa: Kenya- Mombasa Uganda Protectorate British South Africa: Southern Rhodesia Canada Alberta- Calgary Manitoba- Winnipeg Do New Brunswick- Northumberland Ontario Ottawa Do Toronto Do Do	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 15-Dec. 5  Sept. 1-30  Nov. 13-19  Dec. 13-19  Jan. 3-9  Dec. 6-13  Dec. 6-12.	134 10 7 1 1 2 6 1	72 8	Native. Sept. 13-Jan. 2: In seven profinces, 186 cases. From Drumheller, vicinity Calgary.  December, 1925: Cases, deaths, 1. Occurring in
Algiers. Arabia: Aden. Argentina: Resario. Brazii: Rio de Janeiro. British East Africa: Kenya- Mombasa. Uganda Protectorate. British South Africa: Southern Rhodesia. Canada. Alberta- Caigary- Manitoba- Winnipeg. Do. New Brunswick- Northumberland. Ontario. Ottawa. Do. Toronto. Do. Saskatchewan-	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 1-28  Nov. 15-Dec. 5  Sept. 1-30  Nov. 13-19  Dec. 13-19  Dec. 6-13  Dec. 6-12  Jan. 3-9  Dec. 6-12  Jan. 3-9  Jan. 3-9  Jan. 3-9  Jan. 3-9  Jan. 3-9  Jan. 3-9  Jan. 3-9  Jan. 3-9  Jan. 3-9	134 10 7 1 2 6 1	72 8	Native. Sept. 13-Jan. 2: In seven profinces, 186 cases. From Drumheller, vicinity Calgary.  December, 1925: Cases, deaths, 1. Occurring in
A Algiers A Arabia; Aden Argentina: Resario Brazii: Rio de Janeiro British East Africa: Kenye— Mombasa Uganda Protectorate British South Africa: South Africa: South Africa: Canada Canada Alberta— Vinnipeg Winnipeg Do New Brunswick— Northumberland Ontario Ottawa Do Saskatchewan— Moose Jaw	Nov. 21-Dec. 10 Nov. 29-Dec. 5 October, 1925 Nov. 15-Dec. 5 Sept. 1-30 Nov. 13-19 Dec. 13-19 Dec. 6-13 Dec. 6-12 Jan. 3-9 Dec. 6-12 Jan. 3-9 Dec. 6-12 Jan. 3-9 Dec. 6-17 Jan. 3-9 Dec. 27-Jan. 2	134 100 7 1 1 2 6 1 2 1	72 8	Native. Sept. 13-Jan. 2: In seven profinces, 186 cases. From Drumheller, vicinity Calgary.  December, 1925: Cases, deaths, 1. Occurring in
Algiers. Arabia: Adem. Argentina: Adem. Argentina: Rosario. Brazii: Rio de Janeiro. British East Africa: Kenya- Mombasa. Uganda Protectorate British South Africa: Southern Rhodesia. Canada Alberta- Caigary- Manitoba- Winnipeg. Do. New Brunswick- Northumberland Ontario. Ottawa Do Toronto. Do Saskatchewan- Moose Jaw Ceylon:	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 1-28  Nov. 15-Dec. 5  Sept. 1-30  Nov. 13-19  Dec. 13-19  Dec. 6-13  Dec. 6-13  Dec. 6-12  Jan. 3-9  Dec. 27-Jan. 2  Jan. 3-9  do	134 10 7 1 1 2 6 1 1 2 2 1 1 2 2 2	72 8	Native. Sept. 13-Jan. 2: In seven profinces, 186 cases. From Drumheller, vicinity Calgary.  December, 1925: Cases, deaths, 1. Occurring in localities.
A Algiers A Arabia: A Arabia: A Arabia: A Arabia: A Arabia: A Arabia: A Arabia: A Arabia: A Arabia: A Arabia: A Arabia: A Arabia: British East Africa: Kenys- Mombasa. Uganda Protectorate British South Africa: Southern Rhodesia Canada. Alberta- Calgary. Manitoba- Winnipeg Do. New Brunswick- Northumberland Ontarlo. Ottawa Do. Toronto. Do. Saskatchewan- Saskatchewan- Golombo. Colombo.	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 1-28  Nov. 15-Dec. 5  Sept. 1-30  Nov. 13-19  Dec. 13-19  Dec. 6-13  Dec. 6-12  Jan. 3-9  Dec. 6-12  Jan. 3-9  Jan. 3-9  Jan. 3-9  Jan. 3-9  Jan. 3-9  Jan. 3-9  Jan. 3-9  Jan. 3-9  Jan. 3-9	134 10 7 1 2 6 1	72 8	Native. Sept. 13-Jan. 2: In seven profinces, 186 cases. From Drumheller, vicinity Calgary.  December, 1925: Cases, deaths, 1. Occurring in
Algiers Arabia: Aden Argentina: Aden Argentina: Rosario Brazii: Rio de Janeiro British East Africa: Kenya- Mombasa Uganda Protectorate British South Africa: Southern Rhodesia Canada Alberta- Calgary Manitoba- Winnipeg Do New Brunswick- Northumberland Ontario Otsawa Do Toronto Do Saskatchewan- Moose Jaw Ceylon: Colombo China:	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 1-28  Nov. 15-Dec. 5  Sept. 1-30  Nov. 13-19  Dec. 13-19  do  Jan. 3-9  Dec. 6-13  Dec. 6-12  Jan. 3-9  Dec. 27-Jan. 2  Jan. 3-9  Dec. 6-12  Jan. 3-9  Dec. 6-12  Jan. 3-9  Dec. 6-12  Jan. 3-9  Dec. 6-12  Jan. 3-9  Dec. 6-12	134 10 7 1 1 2 6 1 1 2 2 1 1 2 2 1 1	72	Native. Sept. 13-Jan. 2: In seven profinces, 186 cases. From Drumheller, vicinity Calgary.  December, 1925: Cases, deaths, 1. Occurring in localities.
Algiers. Arabia: Adem. Argentina: Rosario. Brazii: Rio de Janeiro. British East Africa: Rosario. British East Africa: Rosario. British South Africa: South Africa: Southern Rhodesia. Canada Alberta— Caigary— Manitoba— Winnipeg Do. New Brunswick— Northumberland. Ontario. Ottswa Do Toronto. Do Saskatchewan— Moose Jaw Ceylon: Colombo. China: Amoy	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 1-28  Nov. 15-Dec. 5  Sept. 1-30  Nov. 13-19  Dec. 13-19  do  Jan. 3-9  Dec. 6-13  Dec. 6-12  Jan. 3-9  Dec. 27-Jan. 2  Jan. 3-9  Dec. 6-12  Jan. 3-9  Dec. 6-12  Jan. 3-9  Dec. 6-12  Jan. 3-9  Dec. 6-12  Jan. 3-9  Dec. 6-12	134 10 7 1 1 2 6 1 1 2 2 1 1 2 2 1 1	72 8	Native. Sept. 13-Jan. 2: In seven profinces, 186 cases. From Drumheller, vicinity Calgary.  December, 1925: Cases, deaths, 1. Occurring in localities.
Algiers. Arabia: Adem. Argentina: Rosario. Brazii: Rio de Janeiro. British East Africa: Rosario. British East Africa: Rosario. British South Africa: South Africa: Southern Rhodesia. Canada Alberta— Caigary— Manitoba— Winnipeg Do. New Brunswick— Northumberland. Ontario. Ottswa Do Toronto. Do Saskatchewan— Moose Jaw Ceylon: Colombo. China: Amoy	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 1-28  Nov. 15-Dec. 5  Sept. 1-30  Nov. 13-19  Dec. 13-19  do  Jan. 3-9  Dec. 6-12  Jan. 3-9  Dec. 27-Jan. 2  Jan. 3-9  Dec. 6-12  Jan. 2-9  Oct. 25-Dec. 6-12  Dec. 6-12  Dec. 6-12  Dec. 6-12  Dec. 6-12  Dec. 6-12  Dec. 6-12  Dec. 6-12  Dec. 6-12  Dec. 7-13	134 10 7 1 1 2 6 1 1 2 2 1 1 2 2 1 1	72	Native. Sept. 13-Jan. 2: In seven profinces, 186 cases. From Drumheller, vicinity Calgary.  December, 1925: Cases, deaths, 1. Occurring in localities.  Port case.
Algiers. Arabia: Adem. Argentina: Rosario. Brazii: Rio de Janeiro. British East Africa: Kenya- Mombasa. Uganda Protectorate. British South Africa: Southern Rhodesia. Canada Alberta- Calgary. Manitoba- Winnipeg. Northumberland. Ontario. Ottswa. Do. Toronto. Do. Saskatchewan- Moose Jaw Ceylon: Colombo. Chima: Amoy. Antung. Chimeking.	Nov. 21-Dec. 10 Nov. 29-Dec. 5 October, 1925 Nov. 1-28 Nov. 15-Dec. 5 Sept. 1-30 Nov. 13-19 Dec. 13-19 Dec. 6-13 Dec. 6-12 Jan. 3-9 Jan. 3-9 do Dec. 6-12 Jan. 3-9 do Dec. 6-12 Jan. 3-9 do Dec. 6-12 Jan. 3-9 Dec. 6-12 Jan. 3-9 Dec. 6-12 Jan. 3-9 Jan. 3-9 Dec. 6-12 Jan. 3-9 Dec. 6-12 Oct. 25-Dec. 5 Dec. 7-13	134 10 7 1 1 2 6 1 1 2 2 1 1 2 2 1 1	72	Native. Sept. 13-Jan. 2: In seven profinces, 186 cases. From Drumheller, vicinity Calgary.  December, 1925: Cases, deaths, 1. Occurring in localities.
Algiers Arabia: Aden Argentina: Resario Brazii: Rio de Janeiro British East Africa: Kenys  Wanda Protectorute British South Africa: Southern Rhodesia Canada Alberta— Calgary Manitoba— Winnipeg Do. New Brunswick— Northumberland Ontario Ottswa Do Saskatchewan— Moose Jaw Ceylon: Colomba China: Amoy Antung Chungking Foochow	Nov. 21-Dec. 10 Nov. 29-Dec. 5 October, 1925 Nov. 1-28 Nov. 15-Dec. 5 Sept. 1-30 Nov. 13-19 Dec. 13-19 Dec. 6-13 Dec. 6-12 Jan. 3-9 Jan. 3-9 do Dec. 6-12 Jan. 3-9 do Dec. 6-12 Jan. 3-9 do Dec. 6-12 Jan. 3-9 Dec. 6-12 Jan. 3-9 Dec. 6-12 Jan. 3-9 Jan. 3-9 Dec. 6-12 Jan. 3-9 Dec. 6-12 Oct. 25-Dec. 5 Dec. 7-13	58 1 134 10 7 1 1 2 6 1 1 2 2 1 1 2 2	72	Native. Sept. 13-Jan. 2: In seven profinces, 186 cases. From Drumheller, vicinity Calgary.  December, 1925: Cases, deaths, 1. Occurring in localities.  Port case.
Algiers. Arabia: Adem. Argentina: Rosario. Brazii: Rio de Janeiro. British East Africa: Rosario. British East Africa: Rosario. British South Africa: South Africa: Southern Rhodesia. Canada Alberta— Caigary— Manitoba— Winnipeg Do. New Brunswick— Northumberland. Ontario. Ottswa Do Toronto. Do Saskatchewan— Moose Jaw Ceylon: Colombo. China: Amoy	Nov. 21-Dec. 10  Nov. 29-Dec. 5  October, 1925  Nov. 1-28  Nov. 15-Dec. 5  Sept. 1-30  Nov. 13-19  Dec. 13-19  do  Jan. 3-9  Dec. 6-13  Dec. 6-12  Jan. 3-9  Dec. 27-Jan. 2  Jan. 3-9  Dec. 6-12  Jan. 3-9  Dec. 6-12  Nov. 18-Dec. 5  Nov. 18-Dec. 5  Nov. 18-Dec. 5  Nov. 18-Dec. 5  Nov. 18-Dec. 5  Nov. 1-21  Nov. 14-21  Nov. 14-21	58 1 134 10 7 1 1 2 6 1 1 2 2 1 1 2 2	72	Native. Sept. 13-Jan. 2: In seven profinces, 186 cases. From Drumheller, vicinity Calgary.  December, 1925: Cases, deaths, 1. Occurring in localities.  Port case.  Present.

# Reports Received from December 26, 1925, to January 29, 1926—Continued

# SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
China—Continued Manchuria—			****	
An-shan	Dec. 6-12	1		
Dairen	Oct. 19-Dec. 6	40	10	
Mukden	Oct. 24-Nev. 15	1		
Tieh-ling.	do	2		_
Nanking	Nov. 21-Dec. 5			Present.
Shanghai	Oct. 25-Dec. 19	23	25	TD -
Swatow Tientsin	Nov. 22-Dec. 5 Nov. 1-7			Do.
	1404. 1-1	1		
Egypt: Alexandria	Dec. 3-9	1	1	
France	200.00	-	1 1	September, 1925: Cases, 25.
Great Britain:				Deptember, 10201 c does, 201
England and Wales	Nov. 15-Dec. 26	790		
Hull	Nov. 29-Dec. 26	25		
Newcastle-on-Tyne	do	6		
Sheffield	Nov. 22-Dec. 12	7		
Greece				Oct. 1-31, 1925: Cases, 16.
Athens	Nov. 1-30	17	1	0.4 10.37 14 1007- 0
India	N 0.00	12	7	Oct. 18-Nov. 14, 1925: Cases,
Bombay	Nov. 8-28	21	12	5,093; deaths, 1,136.
Karachi	Nov. 29-Dec. 5 Nov. 1-21	23	12	
Do	Nov 29-Dec 5	4	2	
Madras	Nov. 29-Dec. 5 Nov 15-Dec. 12	12	4	
Rangoon	Oct. 25-Nov. 28	-3		
Indo-China				September, 1925 Cases, 122; deaths, 33. September, 1924; Cases, 78; deaths, 22. September, 1924; Cases, 8;
				deaths, 33. September, 1924;
Province—	!			Cases, 78; deaths, 22.
- Annam	Sept. 1-30	47	9	September, 1924: Cases, 8;
	f _			deaths, z.
Cambodia	ao	29	8	September, 1924: Cases, 16;
Carlein Obina		- 00	10	deaths, 1.
Cochin China		28	16	September, 1924: Cases, 43;
Tonkin	do	18	1	deaths, 19. September, 1924: Cases, 11.
Iraq		10		Sept. 6-19, 1925: Cases, 41; deaths,
Bagdad	Nov. 1-14	4	4	24.
Do	Nov. 22-Dec. 5	9	9	
Italy	l			Aug. 2-Sept. 30, 1925: Cases, 26,
Rome	Oct. 12-25	1		
Jamaica				Nov. 27-Dec. 26, 1925: Cases, 52.
Kingston	Nov. 27-Dec. 26	43		Reported as alastrim.
Japan:	Nov. 11-Dec. 10	3	i	•
Taiwan Yokohama	Dec. 14-20	1		
Java:	Dec. 17-20	_		
Batavia.	Oct. 24-30	1		
Do	Nov. 14-27	5		Province and city.
Kraksaan	Oct. 11-17	11		
Malang	do	2		
North Bantam	Oct. 4-17	4		
Probolingo	l Oct. 11-17	1		
Soerahaya	Oct. 11-Nov. 21	343	50	
South Bantam	go	1		
Tegal	Oct. 4-10	9	1	
Malta	November, 1925	14		Telm Amount 1895 Pleathy NA
Mexico	Dec. 13-Jan. 2	4	3	July-August, 1925. Deaths, 905.
Aguascalientes Durango	Dec. 1-31		i	
Guadalajara	Dec. 29-Jan. 4		3	
Mexico City	Nov. 28-Dec. 5	ĭ		
Torreon	Nov. 1-30		15	
Persia:				
_ Teheran	July 23-Aug. 23		68	
Peru:		1	1	
Arequipa	Oct. 1-31		1	
Portugal:	0-4 4 01		1	
Lisbon Do	Oct. 4-31	124		
Do	Nov. 16-Dec. 6 Nov. 14-Dec. 19	179	31	
Oporto	Nov. 22-Dec. 19	2	3	,
Russia	2107. 22.200. 18			May-June, 1925: Cases, 1,336,
		*******		and are a control toward and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and th

# Reports Received from December 26, 1925, to January 29, 1926—Continued

# SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Stam				July 12-Sept. 5, 1925: Cases, 21 deaths, 6.
Spain: MalagaValenciaSwitzerland	Nov. 29-Dec. 5 Dec. 20-26	<u>1</u>	2	June 28-Oct. 24, 1925: Cases, 36,
LucerneTunisia:	Oct. 1-Nov. 30 Nov. 21-30			Valle 20 000. 21, 1020. Cases, 60.
Do	Dec. 11-20		R	
Name of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last o		1	1	1
Algeria: Algiers	October, Novem- ber.	3		
Argentina: Rosario Chile:	Oct. 1-31			
Valparaiso China:	Nov. 29-Dec. 5	i	1	
Antung Egypt: Port Said	Nov. 29-Dec. 6 Nov. 19-25		1	
FinlandGreece:		11	2	October, 1925: One case.
Lat via	October, 1925	2		September, 1925: Cases, 8; deaths,
MexicoAguascalientes	Dec. 14-19 Dec. 1-31		1	July-August, 1925; deaths, 65.
Guadalajara	Dec. 8-Jan. 4 Nov. 22-Jan. 2		3	Including municipalities in Federal district.
Tampico Torreon Palestine:	Dec. 21-Jan. 10 November, 1925		1	
Jaffa Nazareth Safud Tel-Aviv	Dec. 1-7 Nov. 3-9 Nov. 24-30dodo	1		
Peru: Arequipa Poland	ļ ⁻	1	2 5	** (
Rumania Russia Union of South Africa				July, 1925: Cases, 74; deaths, 9 May-June, 1925: Cases, 7,609. October 1-31, 1925: Cases, 88 deaths, 7 (colored); cases, 7
Cape Province			5	deaths, 7 (colored); cases, 7 (European population).
Do	Nov. 8-14 Oct. 1-Dec. 5	i	1	Outbreaks in two districts.
Transvaal	Oct. 1-31	1	i	•

# TREASURY DEPARTMENT

# PUBLIC HEALTH REPORTS

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Volume 41 ::

Number 7

FEBRUARY 12 - - 1926

# = SPECIAL ARTICLES =

Rate of Reaeration of Sewage-Polluted Streams Smallpox in the United States During 1925



WASHINGTON GOVERNMENT PRINTING OFFICE

# UNITED STATES PUBLIC HEALTH SERVICE

Hugh S. Cumming, Surgeon General

#### DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg. Gen. B. J. LLOYD, Chief of Division

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# PUBLIC HEALTH REPORTS

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No. 7

# THE RATE OF ATMOSPHERIC REAERATION OF SEWAGE-POLLUTED STREAMS ¹

By H. W. STREETER, M. Am. Soc. C. E., Sanitary Engineer, U S Public Health Service

#### INTRODUCTION

In all problems of stream sanitation involving the maintenance of an adequate reserve supply of dissolved oxygen for the preservation of fish life or the prevention of nuisance, there are two major factors to be considered as determining the limiting degree of pollution of streams which is consistent with satisfying a given reserve oxygen requirement. One of the factors is the rate of biochemical deoxygenation of the stream water, proceeding in accordance with laws which have been described by Mr. Theriault.² The other element is the rate and extent of replenishment of its oxygen supply from three natural sources:

- (a) Dilution water entering the stream through the medium of tributaries and local inflow.
- (b) Biological reoxygenation through the activites of certain oxygen-producing plants.
- (c) Atmospheric reaeration, or absorption of oxygen directly from the atmosphere.

Of these three sources of oxygen, atmospheric reacration is by far the most important in freely flowing streams, and this paper is limited to this subject.

It has been widely recognized that atmospheric reacration is an important factor in the recovery of dissolved oxygen by flowing streams subjected to progressive deoxygenation but, as far as is known, the first effort to evaluate its effects quantitatively as observed under natural conditions, and to correlate such measured effects with the various physical elements which modify them, was made in connection with a survey of the pollution and self-purification of the Ohio River, by the United States Public Health Service, in 1914, 1915, and 1916. The results obtained from this phase of the survey, which recently have been published in the form

¹ The third of four parers comprising a symposium on stream pollution presented at the meeting of the sanitary engineering division of the American Society of Civil Engineers at Cincinnati, Ohio, Apr. 23, 1925, and published in the Proceedings of the Society, Vol. Li, No. 9, November, 1925. The first two papers were published in Public Health Reports for Jan. 15, and Feb. 5, 1927, respectively.

² Public He alth Reports, for Feb. 5, 1926, pp. 207-217.

of a separate report, have served as a basis for a further study of stream reacration by the service in connection with a survey of the pollution of the Illinois River, in 1921 and 1922. Although a full analysis of the reacration data obtained from the Illinois River study has not been completed, it has been carried forward sufficiently to suggest wherein the conclusions reached from the Ohio River study concerning the laws and factors underlying this phenomenon appear to be confirmed and wherein they may require modification. In this paper it is proposed to indicate what both studies have shown, of interest to engineers, as bearing on the theory of stream reacration and its applications to problems of river sanitation. For the sake of brevity the term "reacration" will be used hereafter in referring to this phenomenon.

#### THE NATURE OF STREAM REAERATION

The reaeration of flowing streams is governed primarily by the laws controlling the absorption of moderately soluble gases by unsaturated liquids kept in a state of continuous agitation. These laws have been studied recently by a group of chemists, the results of whose observations have been published in the form of a symposium.4 In a paper included in this symposium Mr. H. G. Becker⁵ states in the following general form the law of gas absorption which underlies stream reaeration: When a liquid and a moderately soluble gas are allowed to come in contact and the liquid is thoroughly mixed, "the rate of solution of the gas varies directly as the degree of unsaturation of the liquid." In the report on studies of reaeration in the Ohio River, to which reference has been made, it was stated that the rate of solution of oxygen at the surface is directly propertional to the existing saturation deficit (which is merely another way of stating the same law), and it was shown that results obtained by Dibdin and by Adency and Becker afford experimental confirmation of this principle.

Expressed in terms of stream reacration, the law thus stated signifies that in each successive unit of time a constant percentage of the remaining deficit in the dissolved oxygen content of the stream below the saturation point will be satisfied by absorption of oxygen from the atmosphere. The percentage will vary with conditions affecting the rate of absorption but will remain constant for a given condition. This is analogous to the law of deoxygenation discussed in Mr. Theriault's paper, except that in the latter case the rate of

³ Studies of the pollution and natural purification of the Ohio River, Pt. III: Factors concerned in the phenomena of oxidation and reacration. By H. W. Streeter and E. B. Phelps. Public Health Bulletin No. 146, U. S. Public Health Service.

⁴ Journal of Industrial and Engineering Chemistry, December, 1924, pp. 1215-1230.

⁵ Mechanism of absorption of moderately soluble gases in water, Journal of Industrial and Engineering Chemistry, December, 1924, pp. 1220-1224.

progress of the action is a direct function of the biochemical oxygen demand rather than the oxygen saturation deficit of the stream water.

In the Ohio River studies the law of oxygen absorption was formulated thus:

Let

 $D_a$  = the initial oxygen saturation deficit, in terms of consentration;

D = the oxygon deficit at any time, t, expressed in similar terms; and

 $K_2$  = a coefficient defining the rate of reacration.

Then

$$\frac{d D}{d t} = -K_2 D$$

whence

$$\log \frac{D}{D_a} = -K_2 t \tag{1}$$

On referring to Mr. Theriault's paper it will be noted that this expression is exactly similar to that which defines the rate of deoxygenation—that is,

$$\frac{dL}{dt} = -K_1 L$$

whence

$$\log \frac{L}{L_a} = -K_1 t \tag{2}$$

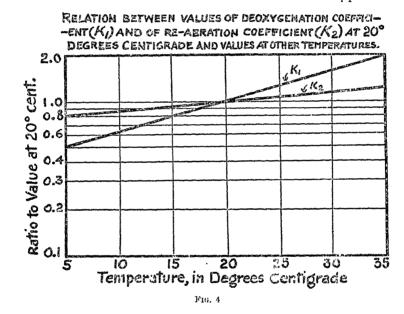
except that, in this case, the biochemical oxygen demand, L, replaces the oxygen deficit, D, and the coefficient of deoxygenation,  $K_1$ , replaces the coefficient of reacration,  $K_2$ .

The coefficient of reaeration,  $K_2$ , defining the rate of absorption of oxygen, when expressed in terms of oxygen concentration in the stream, has been found, in the Ohio River study, to be modified by stream depth and by various physical conditions which influence the turbulence of flow, among which are the velocity of the current and the slope and irregularity of the channel. In the Ohio River these relations were found to be governed by a simple equation:

$$K_2 = c V^n \times H^{-2} \qquad (3)$$

in which V represents the velocity of flow; H, the depth; and c and n, the constants for a particular river stretch, the values of which depend in part on the channel slope and irregularity. In most cases it has been found that the value of  $K_2$  is very nearly inversely proportional to the discharge of the stream, which term, multiplied by a proper reducing constant, may be substituted for the square of the depth in equation (3).

The rate of reacration is further modified by the water temperature, being accelerated at the higher and dimished at the lower temperatures. The controlling element in this temperature effect appears to lie in the fact that the rate of absorption of oxygen at the surface is limited by the process of diffusion, which, as shown by Black and Phelps,⁶ is governed by a similar temperature relation. It was found in connection with the Ohio River study that when observed values of the reacration coefficient,  $K_2$ , are corrected in accordance with the factors developed by Black and Phelps, the corrected values are more closely correlated with the other stream conditions which have been noted than the uncorrected ones. A few results obtained from the Illinois River study have indicated that the rate of reacration of this stream does not appear to be



influenced as much by seasonal changes in temperature as connections based on the diffusion factors developed by Black and Phelps would imply. However, the results of the recent experiments by Becker, previously mentioned, and by Haslam, Hershey, and Keen, carefully conducted under physical conditions closely approaching those of flowing streams, have confirmed the earlier findings of Black and Phelps in respect to the direction, and, roughly, to the extent of the temperature effect. As these experimental results are based on far more carefully controlled observations than would be possible under natural conditions, they must be interpreted, for the

W. M. Black and E. B. Phelps. Report on discharge of sewage into New York Habor, to the Board of Estimate and Apportionment, New York City, 1911.
 Journal of Industrial Engineering Chemistry, December, 1924, pp. 1224-1230.

present at least, as affording a reasonably accurate index of the influence of temperature variations on the rate of reaeration of streams. From a plot of the data compiled by Becker, converted to terms of the reaeration coefficient,  $K_2$ , the following temperature correction equation has been derived:

$$K_{2 \text{ (T° C.)}} = K_{2 \text{ (20° C.)}} \times [1.0159 \text{ (T-20)}]$$
 (4)

This equation is proposed tentatively as probably representing most nearly, from available data, the effect of temperature variations on the value of the reaeration coefficient,  $K_2$ , under natural stream conditions. In Figure 4 is shown a plot of this temperature function as compared with a similar plot of temperature correction factors affecting the rate of deoxygenation, which was developed in connection with the Ohio River studies and has been discussed in Mr. Theriault's paper.

# EMPIRICAL MEASUREMENT OF THE REAERATION RATE

From what has been stated concerning the extent and modes of action of atmospheric reaeration in streams acting as receivers of community wastes it is fairly obvious that no even reasonably accurate estimate can be made of the ability of a particular stream to maintain a specified minimum of reserve oxygen supply under a given degree of pollution without a definite knowledge of its capacity for reaeration. This thought leads to a consideration of available means for measuring the reaeration capacities of streams.

Owing to the fact that the rate of reaeration is influenced by a complexity of natural conditions, such as have been noted, methods of laboratory study that have been found suitable for determining the deoxygenation rate are not applicable in this case; hence recourse must be had to measurements in the stream.

If a sufficient number of representative streams could be found in which progressive deoxygenation was not a complicating element, the solution of this problem would be comparatively simple, involving merely the observation of the rate of increase in the dissolved oxygen content of a river between two or more sampling points located at known time intervals of flow from each other. Unfortunately, such a condition never exists, for reasons which are obvious. The true rate of reaeration, then, is always masked, as far as its observable effect on the dissolved oxygen is concerned, by having superimposed on it a rate of deoxygenation acting simultaneously in the opposite direction.

In order to take account of this condition, an equation was devised during the Ohio River studies whereby the resultant effect of two given rates, one of deoxygenation and the other of reacration, on progressive changes in the dissolved oxygen content of a stream can be calculated. This equation was derived by combining the differential expressions, equations (1) and (2), into a differential equation and integrating it to a variable time, t. The equation thus derived is:

$$D = \frac{K_1}{K_2 - K_1} \frac{L_a}{K_1} (10^{-K_1 t} - 10^{-K_2 t}) + D_a \times 10^{-K_2 t} \dots (5)$$

in which

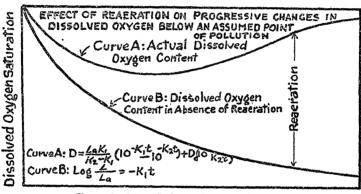
 $D_a$  = the initial dissolved oxygen saturation deficit, in terms of concentration;

D = the dissolved oxygen deficit after time, t, in similar terms;

 $L_a$  = the initial biochemical oxygen demand;

 $K_1$  = the coefficient of deoxygenation; and

 $K_2$  = the coefficient of reacration.



Time below Point of Pollution

F1G. 5

The type of curve defined by this equation is shown by curve A in Figure 5, which has been reproduced from the report of the Ohio River studies to which reference has been made. For comparison with curve A, is shown curve B, representing the progressive deoxygenation which would occur in the absence of reaeration. Curve A is characteristic of progressive changes in the dissolved oxygen content of streams which frequently have been observed in streams below points of major pollution—for example, in the Illinois River below the outlet of the Chicago Drainage Canal; also in the White River below Indianapolis, Ind. Curve B is characteristic of conditions occasionally occurring in highly polluted streams when covered by a continuous ice sheet, temporarily cutting off reaeration.

By substituting in equation (5) known or observed values of all terms except that of the reaeration coefficient,  $K_2$ , the latter can readily be computed for a given river stretch. A large number of

calculations of this kind were made for a series of stretches of the Ohio River, based on observations of the dissolved oxygen and the oxygen demand at the terminals of each river section and on assumed values of the deoxygenation coefficient,  $K_1$ , derived from laboratory studies such as have been described by Mr. Theriault. and corrected to the stream temperature by the equation discussed in his paper. A limited number of parallel computations also have been made for a few stretches of the Illinois River. In Table 2 are shown, for comparison, values of the reaeration coefficient derived in this manner from observations in three stretches of the Ohio River and two stretches of the Illinois River presenting, approximately, similar flow and channel characteristics. The results in both cases cover the summer seasonal period, May to September, inclusive. A marked similarity is shown between values of K₂ thus derived in the two streams. It is also noteworthy that the rates of reaeration observed in these five river stretches are approximately double the corresponding rate of deoxygenation as measured by the laboratory value of the coefficient, K1; thus, the mean value of K2 is approximately 0.24, whereas that of  $K_1$ , at the average river temperature for the given period, is about 0.12.

Table 2.—Measured values of the reaeration coefficient, K2, in three stretches of the Ohio River and two stretches of the Illinois River

(Pray to Sophen	icei, mera	31 4 6)						
	Values of reaeration coefficient, K2							
Month		Ohio Rive	Illinois River					
,	Stations 11-19	Stations 23-65	Stations 104-349	Stations 263-240	Stations 148-122			
May June July Angust Septomber Septomber	. 19 . 29 . 22	0. 20 . 33 . 23 . 26 . 19	0. 18 . 27 . 21 . 21 . 17	0. 31 . 31 . 21 . 19 . 31	0. 17 . 28 . 20 . 27 . 14			
Mean	. 22	. 24	.21	. 27	. 27			

## (May to September, inclusive)

The locations of river stretches are as follows:

Ohio River (river miles below confluence of Allegheny and Monongahela Rivers):

Stations 11-19____ Below Pittsburgh, Pa.

Stations 23-65..... From above mouth of Beaver River to above Steubenville, Ohio.

Stations 104-349____ From below Moundsville, W. Va., to above mouth of Scioto River.

Illinois River (river miles above mouth):

Stations 263-240____ From opposite Morris to opposite Ottawa, Ill.

Stations 148-122___ From Pekin to Havana, Ill.

Under some conditions, as, for example, where a stream flows rapidly over a shallow "riffle," the rate of reaeration may become greatly accelerated owing to the diminished depth and increased turbulence of flow. An instance of this kind is found in a short stretch of the Des Plaines River immediately below Joliet, Ill., where the channel is steep and rough and a series of shallow rapids is formed. Calculations of the value of  $K_2$  for this section of the river, based on daily observations extending over a period of 10 months, from August, 1921, to April, 1922, inclusive, have given indicated rates of reaeration roughly ten times those observed in deeper and less turbulent stretches of the Illinois River downstream. During the period of December to April, when conditions were most favorable for measuring the true rate of reaeration in this stretch of the river, the following values of  $K_2$  were obtained:

December		
January	2.	63
February	2.	70
March		
April	2.	25
•		
Mean	2.	57

The average value of  $K_2$  for the full 10-month period was 2.00.

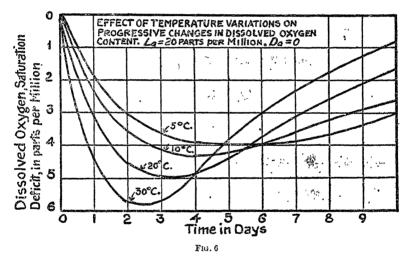
In general, optimum conditions for determining empirically the value of the reaeration coefficient exist where a stream contains a measurable quantity of dissolved oxygen and where the channel bottom is relatively free from unstable and readily oxidizable sludge deposits. When a stream is wholly or nearly depleted of dissolved oxygen and its channel contains any considerable quantities of decomposing sludge, a very sizable proportion of the atmospheric oxygen absorbed by such a stream may be withdrawn from solution almost immediately and thereby fail to be accounted in terms either of reserve oxygen or of biochemical oxygen demand. Under such circumstances the measured value of the reacration coefficient may be widely in error and always will be lower than the true value. Where an excessively polluted stream contains a measurable supply of oxygen and is relatively free from sludge deposits during a part of the time, measurements of its reacration capacity should be made when it is in this condition.

#### APPLICATIONS

The most important applications of the theory outlined in this paper are found in the estimation of dilution or sewage treatment requirements to be met at specified points along excessively polluted streams to avoid overtaxing their capacities for maintaining a specified reserve oxygen supply, or, conversely, in the calculation of the

future limiting permissible degree of pollution of streams now in a satisfactory condition from this standpoint. Both cases are similar in that they involve the prescription of a limiting biochemical oxygen demand of a stream at certain critical points. As the rate of deoxygenation is accelerated during the summer season to a greater proportionate extent than the rate of reacration (the latter often is actually retarded during this season owing to a greatly diminished stream flow), conditions during the summer ordinarily are the most critical to be considered in this connection.

In Figure 6 is given an example showing the effect of temperature variations on progressive changes in the dissolved oxygen as calculated by equation (5), assuming an initial oxygen demand,  $L_a$ , of 20 parts per million and an initial oxygen saturation deficit of zero. The values of the deoxygenation and reaeration coefficients,  $K_1$  and  $K_2$ , have been assumed to be 0.10 and 0.20, respectively, at 20° C.

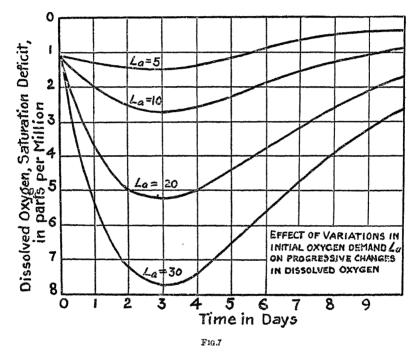


and have been corrected for temperature in accordance with the factors shown in Figure 4. The time required to attain the maximum oxygen deficit is shown to vary from about two days at 30° C. to five days at 5° C.

The effect of variations in the initial oxygen demand,  $L_a$ , on the dissolved oxygen content of a stream below a point of pollution is illustrated by the curves in Figure 7, computed for a temperature of 20° C. and with an assumed initial oxygen deficit of 1.0 part per million. In Figure 8 is a plot of the maximum oxygen deficits and the times required to attain the maximum, as indicated by the curves in Figure 6, the plotted quantities being calculated, however, by a formula developed by differentiating equation (5) and placing the resulting expression equal to zero. In this case it is noted that

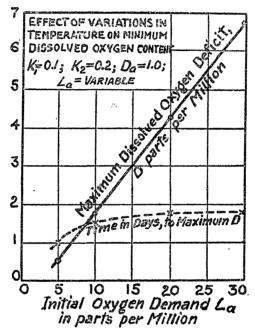
although the maximum deficit varies almost as a straight-line function of the initial oxygen demand, the time to attain the maximum lies within a comparatively narrow range—that is, between two and three days.

It thus appears that the points of maximum dissolved oxygen depletion in polluted streams normally should lie within comparatively short distances, as measured by time, below major sources of pollution, and that their positions should be affected to a much less extent by variations in the initial oxygen demand than they are by seasonal changes in temperature. Observations on numerous streams both in the United States and abroad, have confirmed this statement



in so far as it applies to streams which are not grossly polluted. If the pollution of a stream is so great, however, as to overtax its capacity for reaeration, zones of complete deoxygenation, indefinite in length, may be established at certain seasons of the year, notably during periods of dry-weather flow in summer. A condition of this kind is frequently aggravated by the tendency of grossly polluted streams to deposit a sludge mat in the bottom of the channel which may greatly augment the oxygen demand of the stream proper during critical seasons. Under these circumstances, the equations previously noted are not applicable and special methods of analysis must be used.

A good example of such a condition is found in the stretch of the upper Illinois River, extending from Joliet downstream for approximately 110 miles to the head of Peoria Lake, which receives at its upstream end the sewage of Chicago, discharged into it through the drainage canal and a stretch of the Des Plaines River channel. During eight months of the year, October to May, inclusive, this stretch of the river contains a measurable, although in places low, reserve supply of dissolved oxygen. During the four summer months, June to September, its dissolved oxygen content is practically exhausted throughout its entire length, owing, in part, to the lower



F16. 8

dilution provided by the river and its tributaries, to the effect of the higher summer temperatures in causing an accelerated rate of deoxygenation as compared with that of reaeration, and to the greatly added deoxygenating effect of the dense mat of decomposing sludge with which the bottom of the river channel is covered.

Following the method previously outlined, an effort was made to calculate values of the reaeration coefficient,  $K_2$ , from observations made in the Illinois River during the summers of 1921 and 1922. Owing to the conditions at that time, previously noted, an accurate calculation was found to be impracticable, the values of the coefficient derived being obviously too low, and in some cases negative.

A similar calculation based on observations during the two months, October, 1921, and May, 1922, when the river temperatures approached those of summer and measurable quantities of dissolved oxygen were found in the river, gave results reasonably consistent both as to their agreement with each other and as to their relation to known physical

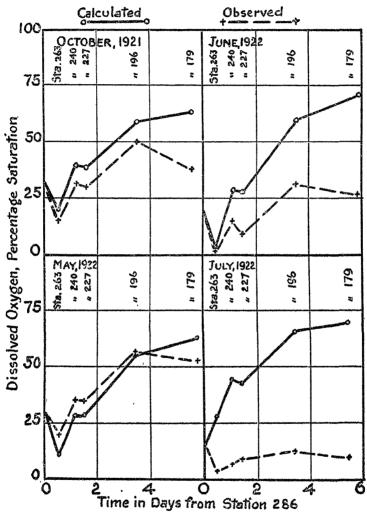


Fig. 9.—Comparison of calculated with observed dissolved oxygen contents at stations in Upper Illinois River. (Plot of data in Table 3.)

conditions in the several river stretches. From these results the following values of  $K_2$ , converted to their equivalents at 20° C., were derived for the five river stretches forming the upper section of the Illinois River between the limits stated (the station numbers referring to the locations, in stream-miles, above the month of the Illinois River):

River stretch	Value of $K_2$							
Stations 286-263	0.68 (mean of October and May)							
Stations 263-240	. 33 (mean of October and May)							
Stations 240-227	. 15 (mean of May)							
Stations 227-196								
Stations 196-179	. 14 (mean of May)							

Although it is likely that the values thus derived (especially the lowest two) are affected to some extent by excessive and unaccountable deoxygenation due to sludge deposits, they are believed to be as nearly representative of the true rates of reaeration prevailing in the several river stretches as any other figures obtained from the present very incomplete series of calculations.

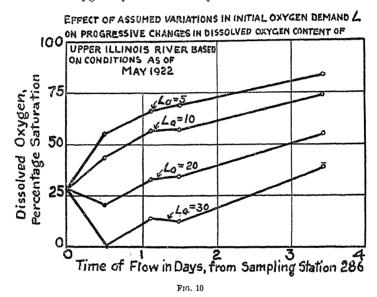
With the foregoing derived values of  $K_2$  as a basis, and using the resultant oxygen equation (5), a computation has been made of the progressive changes in the dissolved oxygen content of the upper Illinois River occurring in the stretch extending from station 286, below Joliet, to station 179, located 107 miles downstream, during each one of the four months, October 1921, and May, June, and July, 1922. In making the calculation (details of which are omitted for the sake of brevity), the value of the deoxygenation coefficient assumed was based on the laboratory figure in every instance except that of the river stretch from station 286 to station 263, for which the mean of the rates of deoxygenation observed in the stream during the two months, October and May, was used. The values of the reaeration coefficient assumed were the same as those just given, corrected to the river temperature. The calculated dissolved oxygen figures at each station are compared with the corresponding results of observation in Table 3 and illustrated graphically in Figure 9.

Table 3.—Comparison of calculated and observed dissolved oxygen contents of upper Illinois River at successive sampling stations

DISSOLVED OYYGE	EN SATUI	RATION I	EFICIT, I	N PARTS	PER MII	LION		
	October, 1921		May, 1922		June, 1922		July, 1922	
Station	Calcu- lated	Ob- served	Calcu- lated	Ob- served	Calcu- lated	Ob- served	Calcu- lated	Ob- served
263	8. 4 6. 1 6. 5 4. 3 4. 9	9. 1 7. 1 7. 4 5. 3 6. 6	8.6 7.0 7.0 4.4 3.6	8. 0 6. 3 6. 4 4. 3 4. 6	8. 6 6. 4 6. 5 3. 6 2. 6	8 8 7.6 8.1 5.9 6.3	6.2 4.8 4.9 3.0 2.7	8.6 8.0 8.0 7.5 8.1
DISSOLVED	OXYGEI	N, PERCE	NTAGE (	OF SATUR	LATION			
020	-			1				

203	20 39 38 59 63	14 32 20 50 37	11 28 28 28 55 63	19 35 34 61 52	3 28 27 60 71	1 15 9 31 26	28 44 43 65 69	2 6 8 12 9
		1		1	1		1	1

On referring to Figure 9, it is noted that the calculated and observed figures agree with each other closly for May and reasonably well for October, but they diverge widely for June and July. The divergence probably is due largely to the effect of sludge decomposition in the channel during the summer months, as it represents the excess of dissolved oxygen, unaccounted for in terms of reaeration or normal deoxygenation, which has disappeared from the stream in passing from the uppermost to the lowest station and can be accounted for only as oxygen absorbed by the bottom sediments. The deoxygenating power of sludge deposited in the channel is thus indicated as having been sufficient, in July, 1922, to cause an absorption of a quantity of dissolved oxygen equivalent to 60 per cent of the saturation value



in a river distance of 107 miles. Although it is hazardous to include in speculation in a problem as complex as that presented by the Illinois River, it seems fairly evident that the mere elimination of sludge deposits from the channel of this stream would go far toward restoring the effectiveness of its powers for self-purification.

The density of pollution of the stream proper, however, is fully as important a factor as its condition in respect to sludge deposits in determining its ability to recover its reserve supply of oxygen. To illustrate this point, a series of curves is given in Figure 10, showing calculated progressive changes in the dissolved oxygen content of the upper Illinois River with various assumed quantities of initial oxygen demand, the calculation being based on observed conditions at Station 286, below Joliet, during May, 1922. The figures from which Figure 10 have been plotted are given in Table 4. The comparison

is not valid except for purposes of illustration, as any lowering of the initial oxygen demand at Station 286 would necessarily entail improved conditions upstream, which, in turn, would cause an increased oxygen saturation at the point of departure, or vice versa. The comparative trends of the curves merely serve to give a rough illustration of the improvement which would be expected if the pollution of a stream at a given point were diminished, without any change occurring in its oxygen status above that point.

In general, it is evident that in almost any given instance where systematic measures are undertaken to relieve excessive stream pollution a reduction in the oxygen demand of the stream proper and an improvement in its condition with respect to sludge deposits should go hand in hand. This point is an important one to be borne in mind in forecasting the extent of beneficial results to be obtained from extensive stream-cleaning activities. The illustrations given in this paper err considerably on the side of conservatism in this respect, as this fact has not been taken into account in deriving them.

Table 4.—Calculated percentages of dissolved oxygen saturation at stations in upper Illinois River, assuming different initial oxygen demand values,  $L_a$ , at  $u_1$  permost station [Based on conditions as of May, 1922]

Station	Time of	gen sa	d percenta turation, d, L _c , assu	with initi	olved exy- al exygen
	in days	5 parts per million	10 parts per million	20 parts per million	30 parts per million
286	0.00 . 19 1.08 1.46 3.44	28 56 67 69 84	28 44 57 58 74	28 21 35 35 55	28 1 12 12 39

#### CONCLUSIONS

From the studies briefly described in this paper, the following tentative conclusions appear to be justified:

- 1. The reacration of flowing streams proceeds substantially in accordance with physical laws which have already been described.
- 2. Its rate at any time is controlled mainly by the temperature, turbulence, and oxygen saturation deficit of the stream.
- 3. The empirical method of measuring rates of reaeration which has been described, involving the use of the resultant oxygen equation (5) and the substitution therein of quantities derived by observations in the stream made under proper circumstances, gives results which appear to be consistent with known facts concerning the physical conditions influencing such rates.

4. By a proper combination of predetermined rates of reoxygenation and of reaeration, using equation (5), a reasonably accurate calculation may be made of the resultant progressive changes in the dissolved oxygen content of a stream under any given or assumed condition of flow, temperature, and initial degree of pollution.

The studies of stream reaeration thus far made along lines indicated in this paper have been confined to the Ohio and Illinois Rivers, surveys of which have offered the only sufficiently extensive and properly coordinated data thus far available for this purpose. much more comprehensive analysis of the Illinois River data, as yet to be completed, probably will give a more satisfactory basis for judgment as to the wider applicability of the results of these studies than it has been practicable to establish within the limited scope of this paper. Some features of the present theory of stream reacration and its method of application doubtless will require further modification as more experience is gained in testing it against specific prob-The studies thus far completed, however, have indicated that the theory in question, applied with due consideration of its practical limitations, offers a working hypothesis for a much more rational treatment of stream sanitation problems involving the prevention of conditions contributing to nuisance and to the destruction of fish life in streams than hitherto has been available.

### SMALLPOX IN THE UNITED STATES, 1925

REPORTS FROM STATE HEALTH OFFICERS OF 38 STATES FOR 11 MONTHS OF THE YEAR 1925, COMPARED WITH THE SAME PERIOD OF 1923 AND 1924

The following table gives a summary of the preliminary reports of cases of smallpox for the first 11 months of the years 1923, 1924, and 1925. These reports were received from State health officers and 38 States are included, these being all from which complete data for the entire period are now available.

The reports indicate great differences in the number of cases in different parts of the country and in the same States at different times. A considerable percentage of the cases of smallpox occur during epidemics and this fact accounts for some of the abrupt fluctuations noted in the table.

The total number of cases reported for the States for which comparable figures for eleven months of the three years are now available are as follows: 1923, 21,233 cases; 1924, 43,029 cases; 1925, 31,037 cases. The increase in 1924 over 1923 was 103 per cent and the decrease in 1925 from 1924 was 28 per cent. The figures for 1925 in these States were 46 per cent higher than those for 1923.

The figures are subject to revision when final reports are received for the year 1925, but it is not probable that the general results for the States included will be materially changed.

Cases of smallpox reported during 11 months of 1925, by State health officers, compared with similar reports for the years 1923 and 1934

	First quarter	Second quarter	Third quarter	October and No- vember	Total, 11 months
New England:					
Marne— 1925	1	0	0	0	1
1924	4	12	2	1	19
1923	8	104	3	1	116
Vermont—	_				
. 1925	C	0	0 1	0	.0
1924	56 25	18	44	0 116	64 203
1923 Massachusetts—	20	10	4.1	110	200
1925	0	2	1 ء	0	3
1924	5	5	2	0	12
1923	0	0	2	0	2
Connecticut—	_ 1		_	_	
1925	0	4	0 28	0	4
1924 1923	38 20	20 15	14	4 2	100 51
1923	20	10	1.4		01
Total—					
1925	1	6	1	0	8
. 1924	103	54	23	5	195
1923	53	137	6.3	119	372
7.5.7.7. 4.1. 4.5					
Middle Atlantic:					
New York— 1925	146	128	7	1	232
1924	107	94	50	189	4.10
1923	160	13	83	23	334
New Jersey—	100	, ,	0,		
1925	25	77	13	0	185
1921	160	100	50	18	328
1923	2	4	18	3	27
Pennsylvania—			1		
1925.	82	121	3	3 45	209 332
1924 1923	43 17	101 85	138 28	34	164
	11	- 00	20	172	101
Total—	•		1	1	
1925	323	326	23	4	676
1924	815	295	238	252	1,100
1923	179	152	101	(0)	525
Word Month (Senten).					
East North Central: Ohio—	ļ				ĺ
1025	1,832	1,460	309	176	3,777
1924	1, 669	2, 245	692	635	5, 241
1923	725	938	210	250	2, 123
Indiana-					1
1925	1, 346	884	211	323	2, 764
1924	1, 207 552	1,677	327	277	3, 548
1923	552	683	198	199	1,635
Illinois— 1925	728	557	95	109	1,489
1924	176	514	256	245	1, 19
1023	554	247	72	43	91
Michigan-	1	1			
1925	293	296	89	31	70
1924	1,852	2, 149	321	147	4, 46
1923	728	313	247	601	1,88
Wisconsin—	677	588	145	53	1,46
1925 1924	337	453	178	122	1,46
1923	506	417	129	176	1, 22
	300			1117	
Total—			1	1	1
1925	4,876	3, 725	849	69.5	10, 20
1924	5, 301	7,038	1,774	1,426	15,53
1923	3,065	2, 598	850	1,269	7,78

Cases of smallpox reported during 11 months of 1925, by State health officers, compared with similar reports for the years 1923 and 1924—Continued

					,
	First quarter	Second quarter	Third quarter	October and No- vember	Total, 11 months
777					
West North Central: Minnesota—			40	38	923
1925 1924	659 861	184 585	42 369	720	2, 535
1923.	962	353	161	254	1,730
Missouri—	225	253	43	17	538
1925 1924	315	198	30	49	592 597
1923	243	164	86	101	991
North Dakota— 1925	101	67	11	15	. 191 506
1924	134 219	188 89	123 40	61 46	394
1923 South Dakota—	}			1	
1925 1924	132 39	87 62	13 17	22 80	254 198
1928	128	33	43	31	235
Nebraska—	366	310	33	34	743
1925 1924	36	89 25	42	49	216
1023	38	25	10	20	93
Kansas— 1925	112	100	26	47	285
1924	540	513	53 60	13 99	1, 119 429
1923	121	146			120
Total— 1925	1, 595	1, 001	168	173	2, 937
1924.	1, 925 1, 714	1,635	634 400	972 551	5, 166 3, 478
1923	1,714	810	400	001	. 0,410
South Atlantic: Delaware—	1				
1925	0	7	2	0	9
1924 1923	1 1	0	0	0	1 2
Maryland-	1			1	ł
1925 1924	33	13 58	1 3	0 3	16 97
1923	0	3	ğ	8	20
District of Columbia— 1925	27	32	0	0	59
1924	84	58	3	2	147
1923 Virginia—	2	2	22	29	55
1925	71	125	43	23	262
1924 1923	121	132 304	31 48	37	293 517
West Virgini)—	l				
1925	509 200	238 121	69 24	3 42	810 387
1924 1923	94	124	14	ő	211
South Carolina—	225	363	76	63	727
1924	355	180	24	36	165
1923	105	76	15	256	452
Georgia— 1925	123	242	27	30	422
1924 1923	1,300 123	720 159	54 100	16 87	2, 090 479
Florida—					
1925 1924	34 70	75 44	18 2	15	142 117
1923	142	51	ő	Ř	207
Total—					***************************************
1925 1924	991 2, 164	1,095	236 144	134 106	2,456 3,727
1928	595	1,313 719	215	444	1, 973
East South Central:					- Carrier Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of
Alabama— 1925.	2, 551	1,278	185	196	4, 210
1924	464	962	327	289	2,042
1923.	97	189	18	20	274
Mississippi—	540	366	178	54	1, 138
1924 192 <b>3</b>	171 88	218	92 39	128	609
Motol .	88	35		48	210
· * 1925	3,091	1, 644	363	250	5, 348
1924 1923	635	1,180	419	417	2,651
1379	185	174	57	68	484

Cases of smallpox reported during 11 months of 1925, by State health officers, compared with similar reports for the years 1923 and 1924—Continued

	First quarter	Second quarter	Third quarter	October and No- vember	Total, 11 months
West South Central:					
Arkansas— 1925	156	66	9	9	240
1924	138	146	27 53	114	425
1923	72	107	53	39	271
Louisiana— 1925	516	166	37	42	761
1924	237	129	31	39	436
1923	315	232	46	38	631
Oklahoma-	486	163	49	33	736
1925 1924	611	318	18	33	980
1923	465	603	46	113	1, 220
Total—	1 150	400	95	84	1 707
1925 1924	1, 158 986	593	76	186	1, 737
1923	852	9 14	145	130	1, 737 1, 841 2, 131
Mountain:					
Montana—	195	69	37	47	348
1925 1924	431	257	84	113	885
1923	126	111	65	249	551
Wyoming—	**			00	
1925	18 0	3 7	4 5	26 21	51 33
1923	14	3	5 3	-0	20
Colorado—			1	_	
1925	5	5	3	1	14
1924 1923	31 71	18 7	14 2	11 9	74 89
Arizona—	11	'	_	•	09
1925.	109	8	0	0	117
1924	17 73	74	9	35	135
1923 Utah—	73	21	3	1	98
1925	43	5	5	22	75
. 1924	51	5 7	19	41	118
1923	74	1-1	9	23	120
Total—			ì		
1925	370	90	49	96	605
1921	530	363	131	221	1, 245
1923	358	156	82	282	878
Pacific:		=====			
Wushington-		j		Ì	
1925	605	541	214	322	1, 682
1024	880	573	249	168	1, 870
1923 Oregon—	555	421	155	217	1, 251
1925	380	145	51	169	745
1747	316	238 328	120	69	743
1023	236	328	112	95	771
California— 1925	2,052	1,762	520	307	4, 611
1924	4,075	3, 303	864	710	8, 952
1923	255	3, 303 371	292	561	1, 482
matl			<del> </del>	<b> </b>	
Total — 1925	3, 037	2,448	785	798	7, 068
1924	5, 271	4, 114	1, 233	947	11, 565
1928	1,046	1, 123	559	876	3, 604
Chand total			-	-	
Grand total— 1925.	15,442	10, 795	2, 569	9 001	31, 037
1924	17, 230	16, 585	4, 682	2, 231 4, 532	43, 029
1923	8,047	6, 813	2, 511	3, 862	21, 235
	1 ' "	1	1	1	1

## DEATH RATES IN A GROUP OF INSURED PERSONS

COMPARISON OF RATES FOR PRINCIPAL CAUSES OF DEATH FOR NOVEMBER AND DECEMBER, 1925, AND FOR THE YEARS 1915 TO 1925, INCLUSIVE

The accompanying tables are taken from the Statistical Bulletin for January, 1926, published by the Matropolitan Life Incomes Co.

They present the mortality experience, according to principal causes of death, of the industrial insurance department of the company for November and December, 1925, and for the years 1915 to 1925, inclusive. The rates for 1925 are based on a strength of approximately 17,000,000 insured persons in the United States and Canada.

It should be borne in mind that these rates apply to a selected group of persons, and that for the years 1920 to 1924, inclusive, they varied between 71 and 75 per cent of the death rate for the United States registration area.

### HEALTH RECORD FOR DECEMBER, 1925

The death rate for December, 1925, was 8.7 per 1,000—a new minimum rate for that month for this group of persons. The best previous rate for this month was 9 in each of the years 1922 and 1923. The Bulletin states that this excellent showing for the final month fittingly closes the best yearly health record in its history of the industrial populations of the United States and Canada.

As compared with December a year ago, the favorable contrast is shown for all principal causes of death except chronic nephritis and cancer, which registered substantially the same rates as for December, 1924. Noteworthy declines are shown for diphtheria, tuberculosis, cerebral hemorrhage, heart diseases, pneumonia, puerperal diseases, and accidents.

Death rates (annual basis) for principal causes per 100,000 lives exposed, November and December, 1925, and December and year 1934

[Industrial department, Metropolitan Life Insurance Co.]

	Rate	per 100,00	0 lives exp	osed 1
Cause of death	December, 1925	November, 1925	December, 1924	Year 1024
Total, all causes.	874. 9	801.8	951.7	905, 2
Typhoid fever Measles Scarlet fever Whooping cough Diphtheria Tuberculosis (all forms) Tuberculosis of respiratory system Cancer Diabetes mellitus Cerebral hemorrhage Organic diseases of heart Procumonia (all forms) Other respiratory diseases Diarrhea and enteritis Bright's disease (chronic nephritis) Puerperal state Suicides Homicides Other external causes (excluding suicides and homicides) Traumatism by automobiles All other causes	4.3 3.1 10.5 88.3 79.7 70.6 16.1 53.9 130.4 15.3 18.9 71.0 12.8 6.0	5. 0 1. 7 2. 0 3. 8 13. 8 78. 4 69. 9 66. 2 11. 8 47. 1 19. 3 77. 0 20. 0 62. 1 15. 1 6. 6 7. 2 57. 6	4. 2 1. 6 3. 8 5. 3 10. 5 07. 3 86. 0 71. 0 10. 4 64. 3 142. 5 105. 3 18. 4 21. 1 70. 9 17. 6 7. 5 7. 8 64. 2 17. 8	4. 4 7. 2 4. 4 7. 4 13. 1 104. 2 92. 2 14. 8 60. 1 123. 4 8. 8. 8 8. 32. 2 65. 3 16. 8 7. 2 15. 6 15. 6 16. 5

¹ All figures include infants insured under 1 year of age.

#### RECORD FOR THE YEAR 1925

The health record in this group of insured persons for 1925 was the best in the history of the company, the death rate being slightly lower than the former minimum rate established in 1924. The death rate for 1925 was 8.46 per 1,000, as compared with 8.48 for the preceding year. While these rates are lower than those for the general population, they are an index as to comparative conditions. In 1924 the rate for this group was 71 per cent of the rate for the registration area of the United States.

The Bulletin states that while there were only 0.3 per cent fewer deaths than would have occurred under the 1924 death rate, there were 66,288 fewer deaths than would have occurred had the 1911 death rate provailed.

New minimum death rates were established in 1925 for the following causes of death: Measles, scarlet fever, diphtheria, tuberculosis (all forms), tuberculosis of the respiratory system, and diseases incidental to pregnancy and childbirth.

The two outstanding favorable items especially noted are the remarkable improvement in the death rates for tuberculosis and the improvement in the principal epidemic diseases of childhood.

Tuberculosis.—For the first time in the record of this group, the death rate for tuberculosis fell below 100 per 100,000. Ten years ago the rate was 198 per 100,000.

Communicable diseases of childhood.—The death rate for diphtheria shows a decline of almost 20 per cent from the rate for 1924, of 34.2 per cent from the rate for 1923, of more than 50 per cent during the past five years, and of 62.6 per cent since 1911.

The death rate for measles dropped to the remarkably low figure of 2.5 per 100,000 in 1925. While this is gratifying, the records show that the death rate for measles is very irregular, running to some extent in cycles.

The scarlet fever death rate declined 21 per cent from the rate for 1924 and records a new minimum.

While whooping cough increased slightly over 1924, the death rate for 1925 is among the lowest rates recorded for this disease.

Typhoid fever.—The typhoid fever death rate (4.6 per 100,000) was slightly higher than for 1924 (4.4). This rise is not regarded as a particularly unfavorable development, however, as the rates for both years are well below those recorded for prior years. The drop in the typhoid death rate in this group since 1911 is 79.8 per cent.

Influenza and pneumonia.—The combined death rate for these diseases shows a slight increase over that for 1924, due entirely to an

increase in influenza deaths reported. The pneumonia record was favorable, the death rate being, with one exception, the lowest ever recorded for this group.

The "degenerative diseases."—The combined rate for diseases of the heart, chronic nephritis, and cerebral hemorrhage for 1925 (254.2 per 100,000) was slightly higher than that for 1924 (252.8).

Cancer.—The death rate for cancer shows no change as compared with the preceding year. The table shows very little variation in the mortality rate for this cause of death during the 11-year period 1915 to 1925.

The report comments on the fact that an investigation carried on by the company showed that more than 2 per cent of the deaths from cancer among its policyholders were of persons under 25 years of age, cancer in certain localities being especially frequent in early life.

Diseases incidental to pregnancy and childbirth.—The splendid record for diseases associated with maternity is an important item in the 1925 mortality experience. The previous low record, established in 1924, was lowered by about 2 per cent. The Bulletin states:

Puerperal diseases have proved a very productive field for public health work. Improved medical and nursing supervision during pregnancy, at the time of delivery, and during the immediate postpartum period, are believed to have been the chief factors in bringing about the more favorable showing.

Diabetes.—The death rate for diabetes mellitus was 15.5 per 100,000, as compared with 15.1 in 1924. The 1925 rate is identical with the rate for 1921, and is higher than the rates for 5 and 10 years ago. In 1923 and 1924 the death rate from diabetes declined, and the decline was coincident with the increasing use of insulin.

Alcoholism and cirrhosis of the liver.—The death rate for alcoholism was 2.9 per 100,000, as compared with 2.8 in 1924, 3.0 in 1923, 2.1 in 1922, 0.9 in 1921, and 0.6 in 1920.

The mortality from cirrhosis of the liver increased appreciably, having a rate of 6.9 per 100,000 in 1925 as compared with 5.8 in 1924.

Automobile fatalities.—The deaths from automobile accidents again show an increase over the preceding year, as has been the case each year since 1911. The rate increased from 15.9 per 100,000 in 1924 to 16.7 in 1925. The death rate from this cause has increased 50 per cent since 1920, has more than tripled since 1915, and is now seven times as high as it was in 1911.

# Death rates per 100,000 lives exposed (ages 1 and over) for principal causes of death, 1915 to 1925, inclusive

### [Industrial department, Metropolitan Life Insurance Co.]

Cause of death	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915
All causes of death	845. 8	848. 0	897. 1	882. 9	870. 6	989, 4	1, 063. 0	1, 559. 2	1, 161 1	1, 168. 1	1, 130. 9
Typhoid fever	4. 6	4 4	5, 2	5. 7	6 7	6. 7	7. 3	11. 5	12.1	13. 0	12.9
Communicable diseases of childhood	19.7	26. 2	33 1	29. 8	37 9	43. 1	31. 5	41.6	46.8	40.8	36 4
Measles	2, 5	5 7	8.4	4.3	3 2	8. 5	3.5				
Scarlet fever	3 4	4 3	4.4				3.9	3.6		4.1	4.6
Whooping cough	3, 6										
DiphtheriaInfluenza and pneumonia	10. 2 88 3	12 7 84. 4	15. 5 107. 7	18. 0 95 3		22 1 159 5			24 6 155. 4		119.5
Influenza	19.3	14. 2	30. 1	21. 7	8.7	53. 5		272. 1	14. 4		13.0
Pneumonia		70 2	77. 6		67. 8			269. 8	121 0		
Meningococcus meningitis	. 7	. 6	.7	.7	9	1.0	1.3	2.8	3 5	15	1.3
Tuberculous, all forms	98. 1	104.4	110.5	114.2	117 4	137.9	156. 5	189.0	188 9	190. 2	197.8
Tuberculosis of respira-	00.0					***		15. 0	150.0	150 0	100.0
tory system	86 9										180 0 70.9
Cancer, all forms Diabetes mellitus	71. 7 15. 5	71. 5 15. 1	72. 7 16. 2		71. 7 15. 5	69. 8 14. 1					
Cerebral hemorrhage, apo-	10.0	10.1	10. 2	11. 4	13. 0	14. 1	10. 4	14.0	10,0	100	10.1
plexv	54.4	61. 1	61.9	62.9	62.1	61. 3	59.8	61, 0	66.8	68.7	68.5
plexy Diseases of heart	128.7	125, 2		126. 7	117 4	117.0		141.7	142.0	140. 2	136.7
Diarrhea and enteritis	12.3	11.3	11. 1	10.8	14. 2	15 8	16. 9	23. 4	25. 5	26. 2	24. 4
Chronic nephritis (Bright's									0	000	0.5 5
disease)	71 1	66 5	69 6			70.8					95. 7 18. 0
Puerperal state, total	16.9 6 6	17 2 6.6				23. 0 8. 0					7. 2
Puciperal albuminuria	0.0	0.0	0.9	1. 4	0.0	0.0	0.7	1.0	1.0		
and convulsions	3.8	43	4. 2	47	4.9	5, 0	4.8	4 9	5. 1	5. 0	
Accidents of pregnancy	16	16	1.8	1.7	16	3. 1	3 0	6.9	1.6		1.8
Total external causes	78. 2	76.9	77.8	71.8	72.0		94. 2			99.5	88. 2
Suicides.	7. 0	7 3				6. 1			9.3		
Honnes 128 Accidents, total	7 4 63 8	7. 2 62. 4	7.3 63 0			5.8			7. 4 76. 5		
Accidental buing	61	6.4				59. 6 8. 1					
Accidental drowning	6.5										11.9
Accidental traama-			٠	""	J	•	1				
tism by fall.	8.0	7.7	8.4	7, 3	7.1	7.3	8.0	10.4	11.0	13. 1	11.9
Accidental trauma-				١				١			٠.,
tism by machines Railroad accidents	1.3		1.7								1.4 7.4
Auto accidents	3 9 16 7	4.0 15 9	4. 9 15. 4			11 1					5. 4
All other accidents	21, 2										
War deaths	(1)	(1)		1.1		.5					
Other diseases and condi-					-		ł				
tions	185.7	183. 4	184.0	186. 5	190. 5	197. 4	193. 5	218. 7	233. 2	247. 1	245. 5
	i ,	1	Į.	l		1	t	1	I .	}	1

¹ Death rate less than 0.05 per 100,000.

# DEATHS DURING WEEK ENDED JANUARY 30, 1926

Summary of information received by telegraph from industrial insurance companies for week ended January 30, 1926, and corresponding week of 1925. (From the Weekly Health Index, February 2, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week ended Jan. 30, 1926	Corresponding week 1925
Policies in force	63, 338, 917	58, 485, 831
Number of death claims	13, 268	12, 486
Death claims per 1,000 policies in force, annual rate		11. 1

Deaths from all causes in certain large cities of the United States during the week ended January 50, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index. February 2, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week en 30, 1		Annual death rate per		s under ear	Infant mortality
City 👞	Total deaths	Death rate 1	1,000 corre- sponding week 1925	Week ended Jan 30, 1926	Corresponding week 1925	week ended Jan. 30, 1926 ²
Total (68 cities)	8, 039	14. 5	14. 2	863	944	3 09
Akron	41 40	17. 7	13.7	5 5	3 3	53 105
Albany 4Atlanta	71	1	10	8	11	100
White	30			3		
Colored	41	(8) 21.7		5		
Baltimore 4	331	21.7	17. 2	30	25	88
White	266		]	21 9		75 146
Colored Birmingham	69 67	(5) 17. 0	17.7	8	9	140
White	24	11.0		i		
Colored	43	(5) 15, 7		1 7		
Boston	235	15.7	16.5	22	39	62
Bridgeport	33			6	2	102
Buffalo	128 30	12 4 13.1	12.7 13.1	18	21	75 50
Cambridge	46	18.6	15.0	7	1 4	118
Chicago 4	741	12.0	13. 2	92	101	81
Cinemati	121	15, 4	16 8	9	11	56
Cleveland	189	10 5	10.6	15	27	39
Columbus	81 58	15. 1 15. 6	16.6	10	5 5	92
DallasWhite	1 46	19.6	13. 5	8	0	
Colored	12	(3)		ő		
Dayton	35	10 6	7.5	2 5	2	31
Denver	76	14.1	17 6	5	10	
Des Moines	36	12.6	13.3	2	2	33
Detroit	284 23	11. 9 10. 9	10. 4 9. 0	41	62	60
El Paso	63	31. 3	21.4	19	2 9	164
Erie.	37	01.0	21.4	12 5 7	i	95
Fall River		17.8	17. 4	1 7	10	102
Flint	18	7. 2	7. 2	4	3	66
Fort Worth		12. 0	14. 7	3 3	8	
WhiteColored	26 9	735		3 0		
Grand Rapids	41	(J) 13. 9	11.5	5	4	72
Houston		18.7	18.3	4	1 3	1
White				1 3		
Colored		(8)		3		
Indianapolis White	102	14.8	14. 5	7 5	11	51
Colored	84 18		·{	0		42
Jacksonville, Fla	48	(5) 23. 9	16. 4	2	3	110
White	. 27			2 3 1		
Colored	21	(5) 12. 6		1 2		
Jersey City	76	12.6	13. 4	13	8	91
Kansas City, Kans White	. 27	12.1	11. 7	2	3	35
Colored	18	(5)		1 1		. 21
Kansas City, Mo	91	(5) 12. 9	14. 8	13	7	. 131
The Ammalaa	296	1	12.0	25	24	69

Deaths from all causes in certain large cities of the United States during the weck ended January 30, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, February 2, 1926, issued by the Bureau of the Census, Department of Commerce)—Continued

	Week en	ded Jan. 926	Annual death rate per 1,000	Deaths 1 y		Infant mortality rate
City	Total deaths	Death rate 1	1,090 corre- sponding week 1925	Week ended Jan. 30, 1926	Corre- sponding week 1925	week ended Jan. 30, 1926 ²
ouisville	72 61	12. 4	13. 8	8	7	69
WhiteColored	11	(5)		ő		0
owell	32	15. 1	15.1	6	3	11:
ynn	19 73	9. 6 21. 8	18.7 36.8	2 10	7 9	50
lemphisWhite	41	21.0	30.0	4		
WhiteColored	32	(5)		6		
[ilwaukee	103	10.7	8.2	9	13	4
inncapolis ashville	92 57	11. 3 21. 8	13. 1 18. 8	10 4	10 5	5
White	25	21.0	10.0	2		
Colored	32	(5)		2		
ew Bedford	36	15, 7	12.6	9 7	4	15
w Haven	46 213	13. 4 26. 8	16. 6 20. 3	32	10 15	1
White	127	20.0	20.0	19		
Colored	86	(5)		13		
w York	1,524	13.5	13. 9	148	174	
Bronx Borough Brooklyn Borough	186 486	11.1 11.5	11. 6 12. 8	13 54	8 66	1 4
Manhattan Berough	678	18. 2	17. 2	64	74	1
Queens Borough Richmond Borough	120	9. 4	9.6	12	20	
Richmond Bolough	45	17.0	22. 2 12 0	5 13	6	
ewark, N. J orfolk	115 40	13, 3	120	13	16 2	
White	1 15			1		
Colored	25	(5)		4		1
okland klahoma City	84 17	17.3	8.8	13 1	2 3	1
maha.	59	14.5	16.3	8	6	
aterson	40	14.5 14.7	16.9	5	8	1 :
hiladelphia	636	16.8	16.3	47	65	
ittsburgh ortland, Oreg	183 82	15. 1 15. 1	16.0 13.1	22 5 9 8 3	26 7	
rovidence	76	14.8	14.8	ğ	111	1
ichmond	55	15.4	18.2	8	5	1
White Colored	30			3 5		i
ochester	25 76	12.5	11.5	111	5	1 *
. Louis	226	14.3	14.7	15	17	
. Paul.	67	14.2	11.0	2	5	1
nlt Lake City 4	53 69	21.1 18.2	14.3 15.0	10	4.7	1
in Diego	33	16.2	21.6	8 2 12	7 3 7 0	
m Francisco	181	16.9	14.4	12	7	1
chonectady	37 71	20.8	9.6	6	0	1
enttle omerville	71	9, 5	16.8	2 3	3 4	
pringfield, Mass	38	13.9	16.1	5	8	1
yracuse	. 38	10.9	12.6	3	8 6	
acoma		11.0	13.5	3	2	
oledo renton	- 70 45	13. 8 17. 8	15. 1 14. 6	8	7 7	
ltica	36	18.5	15, 4	3 8 2 7	4	1 1
tica Vashington, D. C White. Colored	145	15. 2	16.0	12	26	1 -
White	93		-	. 5		-
Cotorbury	- 52	(4)		7 3	14	-
Vilmington, Del	- 32 - 35	15, 0	11.5	3	4	
Vaterbury Vilmington, Del Vorcester	56	15. 3	14.5	3 7	6	. 1
Yonkers Youngstown	. 35	16.1	14.2	0	4	. [ ]
Carrage arms	_ 31	10.1	11.4	1 6	1 8	

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births—An annual rate based on deaths under 1 year for the week and estimated births for 1924. Cities left blank are not in the registration area for births. 3 Data for 63 cities.

A Deaths for week ended Friday, January 29, 1928.

In the cities for which deaths are shown by color, the colored population in 1920 constituted the following per cents of the total population: Atlanta 31, Baltimore 15. Birmingham 20, Dollar of Houston 25 Kansas (1927).

# PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

## UNITED STATES

#### CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

#### Reports for Week Ended February 6, 1926

ALABAMA	1	CALIFORNIA	
	Cases	Cerebrospinal meningitis:	Cases
Cerebrospinal meningitis		Amador County	1
Chicken pox		Hawthorne.	
Dengue		Lincoln	
Diphtheria		Los Angeles	_
Influenza		Patterson	_
Malaria			-
Measles		Sausalito	
Mumps		Stockton	
Pellagra		Tuolumne	_
Pneumonia		Chicken pox	
Poliomyelitis		Diphtheria	
Scarlet fever		Influenza	525
Smallpox		Lethargic encephalitis.	
Tetanus.		Los Angeles	. 1
Tuberculosis		Los Angeles County	. 1
Typhoid fever	. 5	Stockton	
Whooping cough.	. 28	Measles	
( DYMONY)		Mumps	197
. ARIZONA		Poliomyelitis:	
Chicken pox	. 6	San Diego	
Diphtheria		San Diego County	
Mumps		Scarlet fever	164
Scarlet fever		Smallpox:	
Trachoma		Los Angeles	. 88
Tuberculosis		Los Angeles County	37
Whooping cough		Oakland	. 13
		Sacramento	. 5
ARKANSAS		Sacramento County	. 7
Cerebrospinal meningitis	. 1	San Francisco 1	. 6
Chicken pox	-	Scattering	
Diphtheria		Typhoid fever	. 11
Influenza		Whooping cough	. 51
Malaria			
Measles		COLORADO	. 2
Mumps		Botulism Chicken new	. 20
Pellagra		Chicken pox	. 40
Scarlet fever		Diphtheria	. 17
Smallpox	- 1 - 9	Influenza	. 4
Trachoma	. 9	Measles	. 10
		Mumps	. 0
Tuberculosis	. 22	Pneumonia.	. 7
Typhoid fever	_ 3	Scarlet fever	. 21
Whooping cough	_ 15	Tuberculosis	. 40

¹ 10 cases of smallpox were reported Feb. 1, 1926, in the marine hospital at San Francisco, Calif.

colorado—continued	<b>G</b>	GEORGIA—continued	<b>a</b>
Typhoid fever	Cases 3	Cmollney	Cases
Vincent's angina		Smallpox Trachoma	15
Whooping cough	. 64	Tuberculosis	16
		Typhoid fever	
CONNECTICUT		Typhus fever	
Anthrax Cerebrospinal memngitis		Whooping cough	25
Chicken pox	•	OHADI	
Conjunctivitis (infectious)		Chicken pox	3
Diphiheria		Diphtheria	
German measles		Measles.	
Influenza		Mumps	
Measles.		Scarlet fever	16
Mumps	. 11	Smallpox.	12
Pneumonia (broncho)	. 39	Typhoid fever	1
Pneumonia (lobar)		Whooping cough	15
Poliomyclitis		ILLINOIS	
Scarlet fever			
Septic sore throat		Cerebrospinal meningitis:	_
Tuberculosis (pulmonary)		Cools County	1
Typhoid fever		Cumberland County	1
Whooping cough	. 11	DiphtheriaInfluenza	
DELAWARE		Lethargic encephalitis:	14
Chicken pox		Mation County	1
Diphtheria		Saline County	
Influenza		Measles	
Measles		Pneumonia	
Pneumonia		Pohomyelitis:	
Scarlet level		Bureau County	
DISTRICT OF COLUMBIA		Fayette County	
Chicken pox		Scarlet fover	550
Diphtheria		Smallpox:	
Influenza		Champaign County	
Measles		Scattering	
Pneumonia.		Tuberculosis Typhoid fever	237 14
Scarlet feverTuberculosis		Whooping cough	215
Typhoid fever		11.000000000000000000000000000000000000	210
Whooping cough		INDIANA	
		Cerebrospinal meningitis	. 1
FLORIDA		Chicken pox	
Chicken pox		Diphtheria	
Diphtheria		Influenza	
Influenza		Measles	567
Mumps	-	Mumps	. 1
Pneumonia		Pneumonia	
Scarlet fever		Poliomyclitis	
Smallpox		Scarlet fever	
Tetanus	_ 1	Sinallpox	
Tuberculosis		Trachoma	
Typhoid fever		Tuberculosis.	
Whooping cough	_ 1	Whooping cough	
GEORGIA			. 05
Cerebrospinal meningitis	_ 1	IOWA	
Chicken pox		Cerebrospinal meningitis	. 1
Diphtheria		Chicken pox	
Hookworm disease		Diphtheria	
Influenza		Measles	
Malaria		Mumps	
Measles		Pneumonia	
Mumps		Scarlet fever	
Pneumonia		Smallpox	
Scarlet fever		Tuberculosis Whooping cough	. 8
Sentic sore throat	_ 12	т м панина миша	- 74

KANSAS	1	MASSACHUSETTS	~
KANSAS	Cases		Dasos
Cerebrospinal meningitis:		Cerebrospinal meningitis	2 168
Topeka	1	Chicken pox	11
Wichida	1	Diphtheria	53
Chicken pox	121 28	German mcasles	80
Diphtheria	20	Hookworm disease	2
German measles Influenza	15	Influenza	13
Messles	86	Lethargic encephalitis	2
Mumps.	18	Measles	1, 538
Pneumonia	95	Mumps	85
Poliomyelitis—Severy	1	Ophthalmia neonatorum	23
Scarlet fever	96	Pneumonia (lobar)	128
Smallpox	2	Poliomyelitis	1
Tetanus	1	Scarlet fever	332
Trachoma	_ 1	Septic sore throat	5
Tuberculosis	50	Trachoma	2
Typhoid fever.	3	Trichinosis	1
Whooping cough	75	Tuberculosis (pulmonary)	115
LOUISIANA		Tuberculosis (other forms)	21
LOUISIANA		Typhoid fever	8
Cerebrospinal meningitis.	1	Whooping cough	310
Diphtheria	21	MICHIGAN	
Influenza	261	Diphtheria	85
Pneumonia	80	Measles	1,774
Scarlet fever	22	Pneumonia	149
Smallpox	74	Scarlet fever	362
Tuberculosis	32	Smallpox	12
Typhoid fever	17	Tuberculosis	45
MAINE		Typhoid fever	7
Chicken pox	27	Whooping cough	365
Diphtheria.	4	MINNESOTA	
Diphtheria. German measles.	4	Chicken pox	150
Diphtheria. German measles. Influenza.	4 2 6	Chicken pox Diphtheria	47
Diphtheria. German measles. Influenza. Measles	4 2 6 27	Chicken pox	47 1
Diphtheria. German measles. Influenza. Measles. Mumps.	4 2 6 27 18	Chicken pox	47 1 71
Diphtheria. German measles. Influenza. Measles. Mumps. Pneumonia.	4 2 6 27 18 17	Chicken pox	47 1 71 1
Diphtheria. German measles. Influenza. Measles. Mumps. Pneumonia. Poliomyelitis.	4 2 6 27 18 17	Chicken pox	47 1 71 1 421
Diphtheria. German measles. Influenza. Measles. Mumps. Pneumonia. Poliomyelitis. Scarlet fever.	4 2 6 27 18 17 1	Chicken pox	47 1 71 1 421 24
Diphtheria.  German measles.  Influenza.  Measles.  Mumps.  Pneumonia.  Poliomyelitis.  Scarlet fever.  Tuberculosis.	4 2 6 27 18 17 1 41	Chicken pox	47 1 71 1 421 24 42
Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever	4 2 6 27 18 17 1 41 10 3	Chicken pox. Diplitheria Influenza. Measles. Poliomyelitis. Scarlet fever. Smallpox Tuberculosis. Typhoid fever.	47 1 71 1 421 24 42 4
Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough	4 2 6 27 18 17 1 41 10 3	Chicken pox. Diplitheria Influenza. Measles. Poliomyelitis Scarlet fever. Smallpox Tubercutosis Typhoid fever. Whooping coughi	47 1 71 1 421 24 42
Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough	4 2 6 27 18 17 1 41 10 3 25	Chicken pox	47 1 71 1 421 24 42 4 50
Diphtheria. German measles. Influenza. Measles. Mumps. Pneumonia. Poliomyelitis. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough. MARYLAND 2 Cerebrospinal meningitis.	4 2 6 27 18 17 1 41 10 3 25	Chicken pox	47 1 71 1 421 24 42 4 50
Diphtheria. German measles. Influenza. Measles. Mumps. Pneumonia. Poliomyelitis. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough.  MARYLAND 2 Carebrospinal meningitis. Chicken pox.	4 2 6 27 18 17 1 41 10 3 25	Chicken pox	47 1 71 1 421 24 42 4 50
Diphtheria.  German measles. Influenze.  Measles.  Mumps. Pneumonia. Poliomyelitis. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough.  MARYLAND 2  Cerebrospinal meningitis. Chicken pox. Diphtheria.	4 2 6 27 18 17 1 41 10 3 25	Chicken pox. Dipitheria Influenza. Measics. Poliomyelitis. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough.  MISSISSIPPI Diphtheria Influenza. Scarlet fever.	47 1 71 1 421 24 42 4 50
Diphtheria.  German measles. Influenza.  Measles.  Mumps. Pneumonia. Poliomyelitis. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough  MARYLAND 2  Carebrospinal meningitis. Chicken pox. Diphtheria. Dysentery.	4 2 6 27 18 17 1 41 10 3 25	Chicken pox. Diphtheria Influenza. Measles. Poliomyelitis. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cought  MISSISSIPPI Diphtheria. Influenza. Scarlet fever. Smallpox.	47 1 71 1 421 24 42 4 50 10 577 12 7
Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough MARYLAND 2 Carebrospinal meningitis Chicken pox Diphtheria Dysentery German measles	4 2 6 27 18 17 1 10 3 25	Chicken pox. Dipitheria Influenza. Measles. Poliomyelitis Scarlet fever. Smallpox Tuberculosis Typhoid fever. Whooping cough  MISSISSIPI Diphtheria Influenza. Scarlet fever. Smallpox Typhoid fever.	47 1 71 1 421 24 42 4 50
Diphtheria.  German measles.  Influenza  Measles.  Mumps.  Pneumonia.  Poliomyelitis.  Scarlet fever.  Tuberculosis.  Typhoid fever.  Whooping cough.  MARYLAND 2  Carebrospinal meningitis.  Chicken pox.  Diphtheria.  Dysentery.  German measles.  Influenza.	4 2 6 27 18 17 1 41 10 3 25 1 97 30 1 1	Chicken pox. Diphtheria Influenza. Measles. Poliomyelitis Scarlet fever. Smallpox Tuberculosis. Typhoid fever. Whooping cought  MISSISSIPTI Diphtheria Influenza Scarlet fever. Smallpox Typhoid fever.  MISSISSIPTI MISSISSIPTI MISSISSIPTI Diphtheria Influenza Scarlet fever. Smallpox Typhoid fever.	47 1 71 1 421 24 42 4 50 10 577 12 7
Diphtheria.  German measles.  Influenzes.  Measles.  Mumps.  Pneumonia.  Poliomyelitis.  Scarlet fever.  Tuberculosis.  Typhoid fever.  Whooping cough.  MARYLAND 2  Carebrospinal meningitis.  Chicken pox.  Diphtheria.  Dysentery.  German measles.  Influenza.  Lethargic encephalitis.	4 2 6 27 18 17 1 10 3 25 1 97 30 1 1,094 2	Chicken pox. Diphtheria Influenza. Measles. Poliomyelitis Scarlet fever. Smallpox Tuberculosis Typhoid fever. Whooping cough  MISSISSIPI Diphtheria Influenza. Scarlet fever. Smallpox Typhoid fever. MISSOURI Chicken pox.	47 1 71 1 421 24 42 4 50 10 577 12 7 2
Diphtheria.  German measles.  Influenza.  Measles.  Mumps.  Pneumonia.  Poliomyelitis.  Scarlet fever.  Tuberculosis.  Typhoid fever.  Whooping cough.  MARYLAND 2  Cerebrospinal meningitis.  Chicken pox.  Diphtheria.  Dysentery.  German measles.  Influenza.  Lethargic encephalitis.  Malaria.	4 2 6 27 18 17 1 10 3 25 1 97 30 1 1 1,091 2	Chicken pox. Dipitheria Influenza. Measles. Poliomyelitis. Scarlet fever. Smallpox Tuberculosis. Typhoid fever. Whooping cough.  MISSISSIPPI Diphtheria Influenza. Scarlet fever. Smallpox Typhoid fever. MISSOURI Chicken pox. Diphtheria.	47 1 71 1 421 24 42 4 50 10 577 12 7 2
Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough  MARYLAND 2  Carebrospinal meningitis Chicken pox Diphtheria Dysentery German measles Influenza Lethargie encephalitis Malaria Measles	4 2 6 27 18 17 1 10 3 25 1 97 30 1 1 1,094 2 2 2 1,589	Chicken pox. Dipitheria Influenza. Measles. Poliomyelitis Scarlet fever. Smallpox Tuberculosis Typhoid fever. Whooping cough  MISSISSIPI Diphtheria Influenza. Scarlet fever. Smallpox Typhoid fever. MISSOURI Chicken pox. Diphtheria Influenza.	47 1 71 1 421 24 42 4 50 10 577 12 7 2
Diphtheria. German measles. Influenza. Measles. Mumps. Pneumonia. Poliomyelitis. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough.  MARYLAND 2  Carebrospinal meningitis. Chicken pox. Diphtheria. Dysentery. German measles. Influenza. Lethargic encephalitis. Malaria. Measles. Mumps.	4 2 6 27 18 17 1 41 10 3 25 1 97 30 1 1,091 2 2 1,589 166	Chicken pox. Diphtheria Influenza. Measles. Poliomyelitis Scarlet fever. Smallpox Tuberculosis Typhoid fever. Whooping cought  MISSISSIPTI Diphtheria Influenza. Scarlet fever. Smallpox Typhoid fever.  MISSISSIPTI  Diphtheria Influenza. Scarlet fever. Smallpox Typhoid fever.  MISSOURI Chicken pox. Diphtheria Influenza. Measles	47 1 71 1 421 24 42 4 50 10 577 12 7 2
Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough  MARYLAND 2  Carebrospinal meningitis Chicken pox Diphtheria Dysentery German measles Influenza Lethargie encephalitis Malaria Measles	4 2 6 27 18 17 1 10 3 25 1 97 30 1 1,094 2 2 1,589 16 16	Chicken pox. Dipitheria Influenza. Measles. Poliomyelitis Scarlet fever. Smallpox Tuberculosis Typhoid fever. Whooping cough  MISSISSIPI Diphtheria Influenza. Scarlet fever. Smallpox Typhoid fever. MISSOURI Chicken pox. Diphtheria Influenza.	47 1 71 1 421 42 4 50 10 577 12 7 2 103 80 2 173 40
Diphtheria. German measles. Influenza. Measles. Mumps. Pneumonia. Poliomyelitis. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough. MARYLAND 2 Carebrospinal meningitis. Chicken pox. Diphtheria. Dysentery. German measles. Influenza. Lethargic encephalitis. Malaria. Measles. Mumps. Paratyphoid fever. Pneumonia (broncho). Pneumonia (boar).	4 2 2 6 7 18 17 1 1 10 3 25 1 1 1,094 2 2 1,689 166 1 1 145 161 161	Chicken pox. Diphtheria Influenza. Measles. Poliomyelitis Scarlet fever. Smallpox Tuberculosis Typhoid fever. Whooping cough  Mississippi Diphtheria Influenza Scarlet fever. Smallpox Typhoid fever.  Mississippi Chicken pox. Diphtheria Influenza Missiouri Chicken pox. Missiouri Chicken pox. Missiouri Chicken pox. Measles Measles Mumps	47 1 71 1 421 42 4 50 10 577 12 2 4 80 2 2 3 4 4 5 0 8 0 1 8 3 8 0 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8
Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough  MARYLAND ² Carebrospinal meningitis Chicken pox Diphtheria Dysentery German measles Influenza Lethargic encephalitis Malaria Measles Mumps Paratyphoid fever Pneumonia (broncho) Pneumonia (lobar) Scarlet fever	4 2 2 6 6 27 18 17 1 10 3 25 1 1 97 30 1 1 1 1,094 2 2 1,589 166 1 145 161 64	Chicken pox. Dipitheria Influenza. Measics. Poliomyelitis. Scarlet fever. Smallpox Tuberculosis. Typhoid fever. Whooping cough.  MISSISSIPPI Dipitheria Influenza. Scarlet fever. Smallpox Typhoid fever. MISSOURI Chicken pox. Diphtheria Influenza. Measics Measics Mumps Pneumonia.	47 1 71 1 1 24 42 2 4 50 577 12 7 7 2 2 103 80 2 2 173 40 8 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10
Diphtheria. German measles Influenza Measles Mumps Pneumonia. Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough.  MARYLAND 2  Carebrospinal meningitis Chicken pox Diphtheria. Dysentery German measles Influenza Lethargic encephalitis Malaria. Measles Mumps Paratyphoid fever Pneumonia (broncho) Pneumonia (lobar) Scarlet fever Septic sore throat	4 2 2 6 7 18 17 1 10 3 25 2 2 1,589 166 6 1 145 161 64 4	Chicken pox. Diphtheria Influenza. Measles. Poliomyelitis Scarlet fever. Smallpox Tuberculosis Typhoid fever. Whooping cought  MISSISSIPTI Diphtheria Influenza. Scarlet fever. Smallpox Typhoid fever.  MISSISSIPTI Diphtheria Influenza. Mississippi MISSOURI Chicken pox. Diphtheria Influenza. Measles Mumps Pneumonia Rabies (in animals) Scarlet fever. Smallpox	47 1 71 1 421 24 42 45 50 10 577 12 7 7 2 2 103 80 80 8 2 2 2 173 40 8 10 10 10 10 10 10 10 10 10 10 10 10 10
Diphtheria. German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough MARYLAND 2 Carebrospinal meningitis Chicken pox Diphtheria Dysentery German measles Influenza Lethargic encephalitis Malaria Measles Mumps Paratyphoid fever Pneumonia (broncho) Pneumonia (lobar) Scarlet fever Septic sore throat Tetanus	4 2 2 6 7 18 17 1 1 10 3 3 25 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chicken pox. Diphtheria Influenza. Measles. Poliomyelitis. Scarlet fever. Smallpox Tuberculosis. Typhoid fever. Whooping cough  MISSISSIPI Diphtheria Influenza. Scarlet fever. Smallpox Typhoid fever.  MISSOURI Chicken pox. Diphtheria Influenza. Measles Mumps Pneumonia. Rabies (in animals) Scarlet fever. Smallpox Tetanus.	47 1 71 1 421 24 4 50 577 12 2 103 80 2 2 173 40 8 2 2 2 2 18 18 18 18 18 18 18 18 18 18 18 18 18
Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough  MARYLAND ² Carebrospinal meningitis Chicken pox Diphtheria Dysentery German measles Influenza Lethargic encephalitis Malaria Measles Mumps Paratyphoid fever Pneumonia (broncho) Pneumonia (lobar) Scarlet fever Septic sore throat Tetanus Tuberculosis.	4 2 2 6 6 27 18 17 1 10 3 25 1 97 30 1 1 1 1,094 2 2 1,589 166 1 1 145 6 4 4 1 1 77	Chicken pox. Dipitheria Influenza. Measles. Poliomyelitis Scarlet fever. Smallpox Tuberculosis Typhoid fever. Whooping cough  MISSISSIPPI Dipitheria Influenza. Scarlet fever. Smallpox Typhoid fever.  MISSOURI Chicken pox. Diphtheria Influenza. Measles Mumps Pneumonia. Rabies (in animals) Scarlet fever. Smallpox Tetanus. Trachoma.	47 1 71 1 421 24 4 22 4 50 10 577 12 2 173 80 8 2 2 173 40 8 8 2 2 2 18 18 18 18 18 18 18 18 18 18 18 18 18
Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough  MARYLAND ² Carebrospinal meningitis Chicken pox Diphtheria Dysentery German measles Influenza Lethargic encephalitis Malaria Measles Mumps Paratyphoid fever Pneumonia (lobar) Scarlet fever Septic sore throat Tetanus Typhoid fever Typhoid fever Typhoid fever	4 2 2 6 27 18 17 1 10 3 25 11 97 30 1 1 1 1,094 2 2 1,589 166 1 1 145 161 177 4	Chicken pox. Diphtheria Influenza. Measles. Poliomyelitis Scarlet fever. Smallpox Tuberculosis. Typhoid fever. Whooping cought  MISSISSIPPI Diphtheria Influenza. Scarlet fever. Smallpox Typhoid fever.  MISSOURI Chicken pox. Diphtheria Influenza. Measles. Mumps Pneumonia. Rabies (in animals) Scarlet fever. Smallpox Trachoma. Trachoma. Trachoma.	47 1 171 1421 24 42 450 100 577 122 7 7 2 2 173 40 8 8 2 2 2 2 2 13 12 14 14 14 14 14 14 14 15 16 16 16 16 17 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18
Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough  MARYLAND ² Carebrospinal meningitis Chicken pox Diphtheria Dysentery German measles Influenza Lethargic encephalitis Malaria Measles Mumps Paratyphoid fever Pneumonia (broncho) Pneumonia (lobar) Scarlet fever Septic sore throat Tetanus Tuberculosis.	4 2 2 6 7 18 17 1 10 3 25 2 2 1,589 166 64 4 1 1 77 7 4 4 1 1	Chicken pox. Diphtheria Influenza. Measles. Poliomyelitis Scarlet fever. Smallpox Tuberculosis Typhoid fever. Whooping cought  MISSISSIPTI Diphtheria Influenza. Scarlet fever. Smallpox Typhoid fever.  MISSOURI Chicken pox. Diphtheria Influenza. Measles Mumps Pneumonia. Rabies (in animals) Scarlet fever. Smallpox Trachoma. Trachoma. Trachoma. Typhoid fever.	47 1 1 71 1 421 24 42 4 50 100 577 12 7 7 2 2 173 40 8 8 2 2 2 18 2 12 2 2 2 2 14 4 42 4 50

^{*} Week ended Friday.

Chicken pox.	MONTANA	Q	NORTH CAROLINA	<b>a</b>
German measles	Chielron now			
Meusles				
Measles				
Searlet fever				
Smallpox				
Tuberculesis				
Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost = 1   Septile sage whost				
Smellpox   35   50   50   50   50   50   50   50	Whooping cough	. 17		
Chicken pox				
Diphthera		9.5		3
German measles			Whooping cough	170
Measles				
Mumps			OKLAHOMA	
Pacutyphoid fever				
Preumonia			(Exclusive of Tulsa and Chlahoma City)	)
Smallpox			Chicken por	41
Minare   16	Scarlet fever	. 5l	Diphtneria	17
New Jersey	Smallpox	21		569
Minaps	Whooping cough	9		
Anthrace	True Tonory			
Cerebrospinal menagitis   3		1	_	
Chicken pox   1				
Diplet fever				
Dysentery				
Measles				34
Measles			•	1.4
Preumonia				
Scarlet fever.   214			•	
Typhoid fever.   2				
New Mexico	Typhoid fever	. 2	THOOPING CONSTITUTIONS	20
Chicken pox	Whooping cough	. 77	OFFCON	
Chicken pox			UKEGON	
Diphtheria	NEW MEXICO			
Influenza		15	Cerebrospinal meningitis	4
Measles	Chicken pox		Chicken pox	20
Mumps	Chicken pox	_ 1	Chicken pox	20 12
Preumonia   29   Searlet fever   37   Smallpox   Tuberculosis   44   Typhoad fever   11   Searlet fever   37   Smallpox   Deschutes County   11   Seattering   40   Tuberculosis   23   Tuberculosis   24   Typhoad fever   11   Seattering   40   Tuberculosis   20   Typhoid fever   5   Whooping cough   31   Typhoid fever   5   Whooping cough   31   Typhoid fever   5   Whooping cough   31   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   5   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fever   10   Typhoid fe	Chicken pox Diphtheria Influenza	_ 1 _ 205	Chicken pox Diphtheria Influenza	20 12 87
Searlet fever	Chicken pox Diphtheria Influenza Measles	205 5	Chicken pox	20 12 87 16
Smallpox	Chicken pox Diphtheria Influenza Measles Mumps	205 205 5	Chicken pox Diphtheria Influenza Mensles Mumps	20 12 87 16 36
Deschutes County   11   Scattering   40	Chicken pox Diphtheria Influenza Measles Mumps Pneumonia	1 205 5 5 29	Chicken pox Diphtheria Inflienza. Measles Mumps Pneumonia	20 12 87 16 36 3 13
Scattering	Chicken pox Diphtheria Influenza Measles Mumps Pnettionia Searlet fever	205 5 5 29	Chicken pox Diphtheria Influenza Measles Mumps Pueunionia Scarlet fever	20 12 87 16 36 3 13
Tubercalesis   20	Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox	205 5 5 29 11	Chicken pox Diphtheria Influenza Measles Mumps Pueunionia Scarlet fever Smallpox	20 12 87 16 36 313 37
Typhold fever   5	Chicken pox Diphtheria Influenza Mensles Mumps Pnetmonia Scarlet fever Smallpox Tuberculosis Typhond fever	205 5 5 29 11 4 44	Chicken pox Diphtheria Influenza Mensles Mumps Pneumonia Scarlet fever Smallpox Deschutes County	20 12 87 16 36 3 13 37
(Exclusive of New York City)         Whooping cough.         31           Chicken pox.         371         PENNSYLVANIA           Diphtheria.         70         Cerebrospinal meningitis—Pittsburgh.         1           Dysentery.         3         Chicken pox.         447           Inlluenza.         107         Diphtheria.         132           Lethargic encephalitis.         2         German measles.         17           Mumps.         170         Impetigo contagiosa.         1           Mumps.         170         Mersles.         2,052           Pneumonia.         365         Mumps.         120           Poliomyelitis.         3         Pneumonia.         60           Scarlet fever.         274         Pollomyelitis—Wilhamsport.         1           Septic sore throat.         12         Scables.         1           Smallpox.         1         Scarlet fever.         424           Trachoma.         3         Smallpox.—Steelton.         1           Typhoid fever.         19         Tuberculasis.         99           Vincent's angina.         6         Typhold fover.         19	Chicken pox Diphtheria Influenza Mensles Mumps Pnetmonia Scarlet fever Smallpox Tuberculosis Typhond fever	205 5 5 29 11 4 44	Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Deschutes County Scattering	20 12 87 16 36 313 37
Chicken pox         371         PENNSYLVANIA           Diphtheria         70           Dysentery         3         Cerebrospinal meningitis—Pittsburgh         1           German measles         216         Chicken pox         447           Inlluenza         107         Diphtheria         132           Lethargic encephalitis         2         German measles         17           Mcasles         1,037         Impetigo contagiosa         1           Mumps         170         Mersles         2,052           Pneumonia         365         Mumps         120           Poliomyelitis         3         Pneumonia         60           Scarlet fever         274         Pollomyelitis—Wilhamsport         1           Septic sore throat         12         Scabies         1           Smallpox         1         Scarlet fever         424           Trachoma         3         Smallpox—Steelton         1           Typhoid fever         19         Tuberculasis         99           Vincent's angina         6         Typhoid fover         19	Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhond fever Whooping cough	205 5 5 29 11 4 44	Chicken pox Diphtheria Influenza. Measles Mumps Pueumonia Scarlet fever Smillpox Deschutes County Scattaing Tuberenlosis	20 12 87 16 36 3 13 37 11 40 20
Diplutheria.         79           Dysentery.         3         Cerebrospinal meningitis—Pittsburgh         1           German measles.         216         Chicken pov         447           Induenza         107         Diphtheria         132           Lethargic encephalitis         2         German measles.         17           Measles         1,037         Impetigo contagiosa         1           Mumps         170         Meisles         2,052           Penumonia         365         Mumps         120           Poliomyelitis         3         Pneumonia         60           Scarlet fever         274         Poliomyelitis—Wilhamsport         1           Septic sore throat         12         Scabies         1           Smallpox         1         Scarlet fever         434           Trachoma         3         Smallpox—Steetlon         1           Typhoid fever         19         Tuberculosis         99           Vincent's angina         6         Typhoid fover         19	Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhond fever Whooping cough	205 5 5 29 11 4 44	Chicken pox Diphtheria Influenza Mensles Mumps Pueumonia Scarlet fever Smallpox Deschutes County Scattering Tubercrulosis Typhoid fever	20 12 87 16 36 3 13 37 11 40 20 5
Dyschery.       3       Cerchrospinal meningitis—Pittsburgh       1         German measles.       216       Chicken pox       447         Inlluenza       107       Diphtheria       132         Lethargic encephalitis       2       German measles.       17         Measles       1,037       Impetigo contagiosa       1         Mumps       170       Meisles       2,052         Penumonia       365       Mumps       120         Poliomyelitis       3       Pneumonia       60         Scarlet fever       274       Poliomyelitis—Wilhamsport       1         Septic sore throat       12       Scabies       1         Smallpox       1       Scarlet fever       434         Trachoma       3       Smallpox—Steelton       1         Typhoid fever       19       Tuberculosis       99         Vincent's angina       6       Typhoid fover       19	Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Searlet fever Smallpox Tuberculosis Typhond fever Whooping cough  NEW YORK (Exclusive of New York City)	1 205 5 5 29 11 4 4 44 1 23	Chicken pox Diphtheria Influenza. Measles Mumps Pneumonia Scarlet fever Smallpox Deschutes County Scattering Tubercalosis Typhoid fever Whooping cough	20 12 87 16 36 3 13 37 11 40 20 5
German measles.         216         Chicken pov.         447           Iniluenza.         107         Diphtheria.         132           Lothargic encephaltis.         2         German measles.         17           Measles.         1,037         Impetigo contagiosa.         1           Mumps.         170         Measles.         2,052           Pneumonia.         365         Mumps.         120           Poliomyelitis.         3         Pneumonia.         60           Scarlet fever.         274         Pollomyelitis—Wilhamsport.         1           Septic sore throat.         12         Scabies.         1           Smallpox.         1         Scallet fever.         434           Trachoma.         3         Smallpox—Steelton.         1           Typhoid fever.         19         Tuberculosis.         99           Vincent's angina.         6         Typhoid fover.         19	Chicken pox.  Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhond fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox.	1 205 5 5 29 11 4 4 1 23	Chicken pox Diphtheria Influenza. Measles Mumps Pneumonia Scarlet fever Smallpox Deschutes County Scattering Tubercalosis Typhoid fever Whooping cough	20 12 87 16 36 3 13 37 11 40 20 5
Iniluenza.         167         Diphtheria.         132           Lethargic encephalitis.         2         German measies.         17           Measies.         1,037         Impetigo contagiosa.         1           Mumps.         170         Mersles.         2,052           Pneumonia.         365         Mumps.         120           Poliomyelitis.         3         Pneumonia.         60           Scarlet fever.         274         Poliomyelitis—Williamsport.         1           Septic sore throat.         12         Scabies.         1           Smallpox.         1         Scarlet fever.         43           Trachoma.         3         Smallpox.—Steelton.         1           Typhoid fever.         19         Tuberculosis.         09           Vincent's angina.         6         Typhoid fover.         19	Chicken pox. Diphtheria Influenza. Measles Mumps Pneumonia. Scarlet fever. Smallpox Tuberculosis Typhond fever. Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox. Diphtheria.	1 205 5 5 29 11 4 4 1 23	Chicken pox Diphtheria Influenza Mensles Mumps Pneumonia Scarlet fever Smallpox Deschutes County Scattoring Tuberculosis Typhoid fever Whooping cough	20 12 87 16 36 3 13 37 11 40 20 5
Lethargic encephalitis         2         German measies         17           Measies         1,037         Impetigo contagiosa         1           Mumps         170         Mersies         2,052           Pneumonia         365         Mumps         120           Poliomyelitis         3         Pneumonia         60           Scarlet fever         274         Poliomyelitis—Williamsport         1           Septic sore throat         12         Scabies         1           Smallpox         1         Scarlet fever         43           Trachoma         3         Smallpox—Steelton         1           Typhoid fever         19         Tuberculosis         09           Vincent's angina         6         Typhoid fover         19	Chicken pox. Diphtheria Influenza. Measles Mumps. Pneumonia. Searlet fever. Smallpox. Tuberculosis Typhond fever. Whooping cough.  NEW YORK (Exclusive of New York City) Chicken pox. Diphtheria. Dysentery.	1 205 5 5 29 11 4 44 1 23 371 79 3	Chicken pox Diphtheria Influenza Mensles Mumps Pneumonia Scarlet fever Smallpox Deschutes County Scattering Tubercalosis Typhoid fever Whooping cough  PENNSYLVANIA Ceiebrospinal meningitis—Pittsburgh	20 12 87 16 36 313 37 11 40 20 5 31
Measles         1,037         Impetigo contagiosa         1           Mumps         170         Messles         2,052           Pneumonia         365         Mumps         120           Poliomyelitis         3         Pneumonia         60           Scarlet fever         274         Poliomyelitis—Wilhamsport         1           Septic sore throat         12         Scabies         1           Smallpox         1         Scarlet fever         424           Trachoma         3         Smallpox—Steelton         1           Typhoid fever         19         Tuberculasis         99           Vincent's angina         6         Typhoid fover         19	Chicken pox. Diphtheria Influenza. Measles Mumps. Pneumonia. Searlet fever. Smallpox. Tuberculosis Typhond fever. Whooping cough.  NEW YORK (Exclusive of New York City) Chicken pox. Diphtheria. Dysentery. German measles	1 205 5 5 29 11 4 44 1 23	Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Deschutes County Scattering Tubercalosis Typhold fever Whooping cough  PENNSYLVANIA Ceichrospinal meningitis—Pittsburgh Chicken pox	20 12 87 16 36 313 37 11 40 20 5 31
Mumps         170         Messles         2,052           Pneumonia         365         Mumps         120           Poliomyelitis         3         Pneumonia         60           Scarlet fever         274         Poliomyelitis—Wilhamsport         1           Septic sore throat         12         Scabies         1           Smallpox         1         Scarlet fever         424           Trachoma         3         Smallpox—Steelton         1           Typhoid fever         19         Tuberculasis         99           Vincent's angina         6         Typhoid fover         19	Chicken pox. Diphtheria Influenza. Measles. Mumps. Pnettmonia. Scarlet fever. Smallpox. Tuberculosis. Typhond fever. Whooping cough.  NEW YORK (Exclusive of New York City) Chicken pox. Diphtheria. Dysentery. German measles. Iniluenza.	1 205 5 5 29 11 4 44 1 1 23 371 79 216 107	Chicken pox Diphtheria Influenza. Mensles Mumps Pneumonia. Scarlet fever. Smallpox Deschutes County Scattering Tuberenlosis Typhoid fever. Whooping cough  PENNSYLVANIA  Cetebrospinal meningitis—Pittsburgh Chicken pox. Diphtheria.	20 12 87 16 36 31 37 11 40 20 5 31
Pneumonia         365         Mumps         120           Poliomyelitis         3         Pneumonia         60           Scarlet fever         274         Poliomyelitis—Williamsport         1           Septic sore throat         12         Scabies         1           Smallpox         1         Scabies         1           Trachoma         3         Smallpox—Steelton         1           Typhoid fever         19         Tuberculosis         99           Vincent's angina         6         Typhoid fever         19	Chicken pox. Diphtheria Influenza. Measles Mumps Pneumonia. Scarlet fever. Smallpox. Tuberculosis Typhond fever. Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox. Diphtheria. Dysentery. German measles Iniluenza. Lothargic encephalitis.	1 205 5 5 29 11 4 44 1 1 23 371 79 3 6 107 2	Chicken pox Diphtheria Influenza. Measles Mumps Pneumonia Scarlet fever Smallpox Deschutes County Scattering Tuberculosis Typholit fever Whooping cough  PENNSYLVANIA Ceichrospinal meningitis—Pittsburgh Chicken pox Diphtheria German measles	20 12 87 16 36 31 37 11 40 20 5 31
Poliomyelitis         3         Pneumonia         60           Scarlet fever         274         Poliomyelitis—Williamsport         1           Septic sore throat         12         Scabies         1           Smallpox         1         Scarlet fever         434           Trachoma         3         Smallpox—Steelton         1           Typhoid fever         19         Tuberculosis         99           Vincent's angina         6         Typhoid fever         19	Chicken pox. Diphtheria Influenza. Measles Mumps Pneumonia. Searlet fever. Smallpox. Tuberculosis. Typhond fever. Whooping cough.  NEW YORK (Exclusive of New York City) Chicken pox. Diphtheria. Dysentery. German measles. Influenza. Lothargie encephalitis. Measles.	1 205 5 5 5 29 11 4 4 1 23 371 79 216 107 2 1,037	Chicken pox Diphtheria Influenza Mensles Mumps Pneumonia Scarlet fever Smallpox Deschutes County Scattoring Tuberculosis Typholit fever Whooping cough  PENNSYLVANIA  Ceichrospinal moningitis—Pittsburgh Chicken pox Diphtheria German measles Impetigo contaglosa	20 12 87 16 36 313 37 11 40 20 5 31
Scarlet fever         274         Pollomyelitis—Williamsport         1           Septic sore throat         12         Scabies         1           Smallpox         1         Scarlet fever         43           Trachoma         3         Smallpox—Steelton         1           Typhoid fever         19         Tuberculosis         09           Vincent's angina         6         Typhoid fever         19	Chicken pox. Diphtheria Influenza. Measles Mumps. Pneumonia. Searlet fever. Smallpox. Tuberculosis Typhond fever. Whooping cough.  NEW YORK (Exclusive of New York City) Chicken pox. Diphtheria. Dysentery. German measles. Influenza Lothargic encephalitis. Measles Mumps.	1 205 5 5 29 11 4 1 1 23 371 79 3 216 107 1,037	Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Deschutes County Scattering Tubercalosis Typhoid fever Whooping cough  PENNSYLVANIA  Ceichrospinal meningitis—Pittsburgh Chicken pox Diphtheria German measles Impetigo contagiosa Meisles	20 12 87 16 36 313 37 11 40 20 5 31
Septic sore throat         12         Scables         1           Smallpox         1         Scarlet fever         424           Trachoma         3         Smallpox—Steelton         1           Typhoid fever         19         Tuberculasis         99           Vincent's angina         6         Typhoid fover         19	Chicken pox. Diphtheria Influenza. Measles Mumps. Pneumonia. Searlet fever. Smallpox. Tuberculosis Typhond fever. Whooping cough.  NEW YORK (Exclusive of New York City) Chicken pox. Diphtheria. Dysentery. German measles. Influenza. Lethargic encephalitis. Measles. Mumps. Pneumonia.	1 205 5 5 29 11 4 4 1 23 371 79 3 216 107 2 1,036 170 365	Chicken pox Diphtheria Influenza Mensles Mumps Pneumonia Scarlet fever Smallpox Deschutes County Scattering Tubercalosis Typhoid fever Whooping cough  PENNSYLVANIA  Ceichrospinal meningitis—Pittsburgh Chicken pox Diphtheria German measles Impetigo contagiosa Meusles Mumps	20 12 87 16 36 31 37 11 40 20 5 31 447 132 17 1 1 2,052 120
Smallpox         1         Scarlet fever         434           Trachoma         3         Smallpox—Steelton         1           Typhoid fever         19         Tuberculosis         99           Vincent's angina         6         Typhoid fever         19	Chicken pox. Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhond fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox Diphtheria Dysentery German measles Influenza Lethargic encephalitis Measles Mumps Pneumonia Poliomyelitis	1 205 5 5 29 11 4 4 1 23 371 79 3 216 107 2 1,037 170 365 3	Chicken pox Diphtheria Influenza. Measles Mumps Pueumonia Scarlet fever. Smallpox Deschutes County Scattering Tuberculosis Typholit fever Whooping cough  PENNSYLVANIA  Ceichrospinal meningitis—Pittsburgh Chicken pox Diphtheria German measles Impetigo contagiosa Mersles Mumps Pneumonia	20 12 87 16 36 313 37 11 40 20 5 31 1447 132 17 12,052 120 60
Trachoma	Chicken pox. Diphtheria Influenza. Measles Mumps Pneumonia. Searlet fever. Smallpox Tuberculosis Typhond fever. Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox. Diphtheria Dysentery. German measles Intluenza. Lothargic encephalitis Measles Mumps Pneumonia. Poliomyelitis Scarlet fever.	1 205 5 29 11 4 4 1 23 371 79 3 216 79 21,037 170 365 3 274	Chicken pox Diphtheria Influenza Mensles Mumps Pneuntonia Scarlet fever Smallpox Deschutes County Scattering Tuberculosis Typhold fever Whooping cough  PENNSYLVANIA  Cetebrospinal meningitis—Pittsburgh Chicken pox Diphtheria German measles Impetigo contaglosa Metsles Mumps Pneumonia Pollomyelitis—Williamsport	20 12 87 16 36 31 37 11 40 20 5 31 1 447 132 17 12,052 120 60 1
Typhoid fever	Chicken pox. Diphtheria Influenza. Measles Mumps. Pneumonia. Searlet fever. Smallpox. Tuberculosis. Typhond fever. Whooping cough.  NEW YORK (Exclusive of New York City) Chicken pox. Diphtheria. Dysentery. German measles. Influenza. Luchargie encephalitis. Measles. Mumps. Pneumonia. Poliomyelitis. Searlet fever. Septic sore throat.	1 205 5 5 5 7 7 8 9 11 4 4 4 1 23 371 79 3 216 107 170 865 3 274 12	Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Deschutes County Scattering Tuberculosis Typhold fever Whooping cough  PENNSYLVANIA  Ceichrospinal meningitis—Pittsburgh Chicken pox Diphtheria German measles Impetigo contagiosa Meisles Mumps Pneumonia Pollomyelitis—Williamsport Scables	20 12 87 16 36 31 37 11 40 20 5 31 447 132 17 1 2,052 120 60 1
Vincent's angina 6 Typhoid fever 19	Chicken pox. Diphtheria Influenza Measles Mumps Pneumonia Searlet fever Smallpox Tuberculosis Typhond fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox Diphtheria Dysentery German measles Influenza Lethargic encephalitis Measles Mumps Pneumonia Poliomyelitis Scarlet fever Septic sore throat Smallpox	1 205 5 5 29 11 4 4 4 1 1 23 371 79 3 216 107 2 1,037 170 365 3 365 3 374 12 1	Chicken pox Diphtheria Influenza. Measles Mumps Pneumonia. Scarlet fever. Smallpox Deschutes County Scattering Tubercalosis Typhold fever Whooping cough  PENNSYLVANIA  Ceichrospinal meningitis—Pittsburgh Chicken pox Diphtheria German measles Impetigle contagiosa Meesles Mumps Pneumonia Poliomyehtls—Williamsport Scables Scablet fever	20 12 87 16 36 313 37 11 40 20 5 31 1 447 132 17 1 2,052 120 60 1 1 1434
Whooping cough 338   Whooping cough 238	Chicken pox. Diphtheria Influenza Measles Mumps Pneumonia Searlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox. Diphtheria Dysentery. German measles Influenza Lothargic encephalitis Measles Mumps Pneumonia Poliomyelitis Searlet fever Septic sore throat Smallpox. Trachoma.	1 205 5 5 29 11 44 1 23 371 79 3 62 107 2 1,037 170 365 3 274 12 1 3	Chicken pox Diphtheria Influenza. Measles Mumps Pneumonia. Scarlet fever. Smallpox Deschutes County Scattering Tuberenlosis Typhoid fever. Whooping cough.  PENNSYLVANIA  Cerebrospinal meningitis—Pittsburgh Chicken pox. Diphtheria. German measles Impetigo contaglosa Merisles Mumps Pneumonia. Pollomyelitls—Williamsport Scabies. Scarlet fever. Smallpox—Steelton.	20 12 87 16 36 313 37 11 40 20 5 31 1 447 132 17 12,052 120 60 1 1 1434 1
	Chicken pox. Diphtheria Influenza. Measles Mumps Pneumonia. Searlet fever. Smallpox. Tuberculosis Typhond fever. Whooping cough.  NEW YORK (Exclusive of New York City) Chicken pox. Diphtheria. Dysentery. German measles. Influenza. Lethargic encephalitis. Measles Mumps Pneumoma. Poliomyelitis. Searlet fever. Septic sore throat. Smallpox. Trachoma. Typhoid fever. Vincent's angina.	1 205 5 5 29 11 4 4 1 23 371 79 3 216 170 365 3 274 12 1 1 39 6	Chicken pox Diphtheria Influenza Mensles Mumps Pneumonia Scarlet fever Smallpox Deschutes County Scattering Tubercalosis Typhold fever Whooping cough  PENNSYLVANIA  Ceichrospinal meningitis—Pittsburgh Chicken pox Diphtheria German measles Impetigo contagiosa Mersles Mumps Pneumonia Pollomyelitls—Williamsport Scabies Scarlet fever Smallpox—Steelton Tubercaulosis Typhold fover	20 12 87 16 36 31 37 11 40 20 5 31 447 132 17 1 2,052 120 60 1 1 434 1 9

RHODE ISLAND		TEXAS -continued	_
	Сакез		Cases
Chicken pox	25	Tuberculosis	1.4
Diphthera	7	Typhoid fever	
Measles	561	Whooping cough	29
Mumps	5	UTAH	
Ophthalmia neonatorum	ı		
Pneumonia	3	Cerebrospinal meningitis -Ogden	1
Scarlet fever	14	Chicken por	57
Tuber culosis	3	Diphthera	
Typhoid fever	3	Influenza	
Whooping cough	17	Measles	
SOUTH CAROLINA		Mumps	
Dengue	2	Pneumonia.	9
Diphtheria	17	Scarlet fever	4
Influenza		Smallpox	
Malaria	64	Tuberculosis	
Measles	5	Typhoid tover	
Scarlet fever	8	Whooping cough	43
Smalliox	17	Trinophilis constituent and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual and an annual an annual and an annual and an annual and an annual and an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an annual an an	49
Tuberculosis	47	VERMONT	
Typhoid form	15	Chieken pox	29
Typhoid fever		Diphtheria	2
Whooping cough	103	Measles	
SOUTH DAKGTA		Mumps.	
Cerebrospinal meningitis	1	Scarlet fever	15
Chicken pox	15	Typhoid fever	1
Diphthena	9	Whosping cough	26
Mumps	2	TOODING COURTS STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA	20
Pneumonia	6	VIRGINIA	
Scarlet fever	71	Cerebrospinal meningitis-Dinwiddie	
Smallpox	1	County	2
Tuberculosis		Smallpox	5
	1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	v
Typhoid fever	1	WASHINGTON	
TENNESSEE		Cerebrospinal meningitis-Pierce County.	1
Cerebrospinal meningitis:		Chicken pox	94
Dyer County	1	Diphtheria	16
Lincoln County	1	German measles	16
Chicken pox	53	Measles	11
Diphtheria	16	Mumps.	111
Influenza	158	Searlet fever	126
Malaria	1	Smallpox:	1 40
Monsies	4 226	Everett.	15
Mumps	19	Grays Harbor County	
Ophthalmia neonatorum	1	Charit Character	10
Pellagra	5	Skagit County	10
Pneumonia	114	Theories	18
Poliomyelitis:		Yakıma County	23
Gibsen County	1	Scuttering.	25
Nashville	1	Tuberculesis	12
Obion County	1	Typhoid fever	4
Scarlet fever	28	Whooping cough	62
Smallpox		WEST VIRGINIA	
Tuharoulode	21	Diphtheria	8
Tuberculosis	42	Scarlet fever	6
Typhoid fever	9	Typhold fever-Hinton	6
Whooping cough	7	WISCONSIN	
TEXAS		Milwaukee:	
Chicken pox	125	Chicken pox	89
	25	Diphtheria.	23
Diphtheria	106	German measles	2
Influenza			2
Influenza	5	Influenza	
Influenza	5	Influenza Measles	
Influenza	5 21	Measles	23
Influenza	5 21 2	Measles Mumps	23 24
Influenza Measles Mumps Pellagra Pneumonia	5 21 2 37	Measles Mumps Pneumonia	23 24 24
Influenza Measles Mumps Pellagra Preumonia Poliomyelitis	5 21 2 37 1	Measics Mumps Pneumonia Scarlet fever	23 24 24 19
Influenza Measles Mumps Pellagra Pneumonia	5 21 2 37	Measles Mumps Pneumonia	23 24 24

wisconsin—continued	ı	wisconsin—continued							
Scattering:	ases	Scattering-Continued.	Cases						
Chicken pox	135	Typhoid fever	6						
Diphtheria	29	Whooping cough	109						
German measles	11	WYOMING							
Influenza.	33	Chicken pox	8						
Lethargic encephalitis	1	Diphtheria							
Moasles	251	Influenza							
Mumps	77	Measles							
Pneumonia	23	Mumps							
Scarlet fever	157	Pneumonia							
Smallpox	11	Scarlet fever							
Tuberculosis.	16	Whooping cough							
Reports for Week Ended January 30, 1926  DISTRICT OF COLUMBIA Cases   NORTH DAKOTA—continued Cases									
Chicken pov	41	Pneumonia.	32						
Diphthera	20	Poliomyelitis							
Influenza	6	Scarlet fever							
Measies	32	Smallpox							
Mumps	2	Whooping cough							
Pneumonia	83								
Scarlet fever	27	SOUTH CAROLINA							
Tuberculosis	23	Dengue	2						
Whooping cough	7	Diphtheria	17						
• • •		Influenza	1,460						
NORTH DAKOTA		Malaria	74						
Chicken pox	46	Mcasles	11						
Diphthena	7	Scarlet fever	. 8						
German measles	28	Smallpox							
Influenza	17	Tuberculosis	38						

#### SUMMARY OF MONTHLY REPORTS FROM STATES

24

Measles

Mumps

Typhoid fever

82 Whooping cough

2

94

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

Stato	Cere- bro- spinal menin- gitis	Diph- therm	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
December, 1925 Montana Pennsylvania South Pakota Utah Virgina	1 9 2 11 8	41 890 40 174 324	10 4 170 1,876	23	12 4,387 10 23 441	13	3 6 4	150 1, 967 366 110 438	27 0 11 39 34	21 149 6 7 63

#### PLAGUE ERADICATIVE MEASURES IN THE UNITED STATES

The following items were taken from the reports of plague eradicative measures from the cities named:

Los Angeles, Calif.

Week ended January 23, 1926:	1
Number of rats trapped	3, 382
Number of rats found to be plague infected	0
Number of squirrels examined	823
Number of squirrels found to be plague infected	0
Number of mice trapped	3, 260
Number of mice found to be plague infected	0
Date of discovery of last plague-infected rodent. Nov 6 1925	

278

#### Oakland, Calif.

#### (Including other East Bay communities)

Week ended January 23, 1926:	
Number of rats trapped	424
Number of rats found to be plague infected	0
Totals:	
Number of rats trapped Jan. 1, 1925 to Jan. 23, 1926	80, 713
Number of rats found to be plague infected	21
Number of squirrels examined May 1 to Aug. 1, 1925	
Number of squirrels found to be plague infected	0
Number of mice trapped Jan. 1, 1925 to Jan. 23, 1926	31, 490
Date of discovery of last plague-infected rat, Mar. 4, 1925.	
Date of last human case, Sept. 10, 1919.	

### GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended January 23, 1926, 36 States reported 1,577 cases of diphtheria. For the week ended January 24, 1925, the same States reported 1,679 cases of this disease. One hundred cities, situated in all parts of the country and having an aggregate population of more than 29,600,000, reported 814 cases of diphtheria for the week ended January 23, 1926. Last year for the corresponding week they reported 896 cases. The estimated expectancy for these cities was 1,150 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-three States reported 9,951 cases of measles for the week ended January 23, 1926, and 2,121 cases of this disease for the week ended January 24, 1925. One hundred cities reported 7,778 cases of measles for the week this year, and 1,043 cases last year.

Poliomyelitis.—The health officers of 38 States reported 13 cases of poliomyelitis for the week ended January 23, 1926. The same States reported 17 cases for the week ended January 24, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-six States—this year, 4,088 cases; last year, 4,281 cases; 100 cities—this year, 1,647 cases; last year, 1,977 cases; estimated expectancy, 1,223 cases.

Smallpox.—For the week ended January 23, 1926, 36 States reported 965 cases of smallpox. Last year for the corresponding week they reported 1,205 cases. One hundred cities reported smallpox for the week as follows: 1926, 203 cases; 1925, 388 cases, estimated expectancy, 122 cases. Eight deaths from smallpox were reported by these cities for the week this year—at Los Angeles, Calif.

Typhoid fever.—Two hundred and nine cases of typhoid fever were reported for the week ended January 23, 1926, by 35 States. For the corresponding week of 1925 the same States reported 289 cases of this disease. One hundred cities reported 75 cases of typhoid fever for the week this year and 95 cases for the corresponding week last year. The estimated expectancy for these cities was 55 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 93 cities, with a population of nearly 29,000,000, as follows: 1926, 1,214 deaths; 1925, 1,181.

### City reports for week ended January 23, 1926

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceeding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

		Ohiele	Diph	theria	ılıaı	ıcnza	Mea-		D
Division, State, and city	Population July I, 1925, estimated	Chick- en pox, cases re- ported	Cases esti- mated expec- tancy	Cases re- ported	Cases re- ported	Deaths re- ported	sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine Portland New Hampshire.	75, 333	9	2	1	3	0	7	5	4
Concord Manchester Vermont.	22, 546 83, 097	0	0 2	- 1 0	0	0	2 9	0	1 4
Barre Burlington Messachusetts:	10, 608 24, 089	ō	0	0	0	ō	0	ō	i,
Boston Fall River. Spi mgfield. Worcester Rhode Island:	779, 620 128, 993 142, 065 190, 757	66 3 8 11	69 6 4 6	24 3 0 12	5 0 0 0	1 0 0 0	163 74 76 116	22 1 0 0	30 3 2 12
Providence	69, 760 267, 918	5 0	2 11	1 2	0	0	30 452	0	6 9
Bridgeport	(1) 160, 197 178, 927	6 17 11	9 8 5	4 6 1	1 0 0	1 1 0	96 53 19	0	6 8 7
MIDDLE ATLANTIC									
New York: Buffalo New York Rochester Syracuse New Jerszy:	538, 016 5, 873, 356 316, 786 182, 003	31 0 19 32	19 226 9 9	0 175 11 0	0 52 0 1	2 16 0 0	11 1, 478 66 18	1 30 0 15	12 261 10 3
Camden Newark Trenton	128, 642 452, 513 132, 020	24 79 8	5 21 6	4 9 2	1 8 3	1 0 4	20 268 1	1 8 1	12 19 6
Pennsylvania: I'hiladelphia Pittsburgh Reeding	1, 979, 364 631, 563 112, 707	214	79 23 5	60	1	5	355 4	17	99
DAST NORTH CENTRAL	112,707	1,					1		
Ohio: Cincinnati	409, 323 91.0, 455 279, 836 287, 380	15 41 21 32	11 35 4 9	8 4 5 8	0 0 0 0	2 0 2 1	3 1,528 10 81	0 5 1 0	21 28 11 11
Fort Wayne Fort Mayne Indianapolis South Bend Terre Haute	97, 846 358, 819 80, 69! 71, 071	5 20 7 2	14 14 1	1 13 1 1	0 0 0	0 0 0	153 0 1	0 0	1 16 1 0

¹ No estimate made.

City reports for week ended January 23, 1926—Continued

					,				
		<i>(</i> 1) 1 1	Diphi	lheria	Influ	ienza	3.7.00		11
Division, State, and city	Population July 1, 1925, estimated	C'hick- en pox, cases re- ported	Cases esti- mated expec- tancy	Cases re- ported	Cases 10- ported	Deaths re- ported	Mea- sles, cases 1e- ported	Mumps, cases re- ported	Pricti- month, deaths 1e- ported
EAST NORTH CENTRAL— continued									
Illinois: Chicago Peorna Springfield Michigan	2, 995, 239 81, 561 63, 923	112 7 8	121 1 2	63 0 1	10 0 0	6 0 0	69 3 0	11 9 2	58 2 2
Detroit Flint Grand Rapids Wisconsin:	1, 245, 824 130, 316 153, 698	108 24 10	70 8 4	52 1 1	2 0 0	0 0	1, 215 16 11	10 2 1	39 4 2
Madison Milwaukee Racine Superior	46, 385 569, 192 67, 707 39, 671	8 134 15 0	0 22 1 1	0 37 1 0	0 1 0 1	0 1 0 0	20 9 0 0	0 21 2 0	0 19 2 0
WEST NORTH CENTRAL									
Minnesota: Duluth Minneapolis St. Paul Iowa:	110, 502 425, 435 246, 001	19 72 32	3 22 15	2 20 12	0 0	0 0 3	1 7 3	0 5 2	1 15 5
Davenport Des Moines Sioux City Waterloo	(1) (1) (1) (1) 36, 771	5 0 6 2	1 4 1 1	1 0 0 1	0 0 0	4000000	0 0 1 0	0 0 0 1	
Missouri: Kansas City St. Joseph St. Louis North Dakota:	367, 481 78, 342 821, 543	51 2 40	10 4 53	4 4 57	1 0 1	1 0 1	54 0 4	3 0 3	7 2
Grand Forks	26, 403 14, 811	2 2	0 1	0	0	0	3 2	16 0	0
South Dakota: Abordeen Sioux Falls	15, 036 30, 127	0 2	1 1	0	0	0	0	37 0	0
Nebraska: Lincoln Omaha Kansas:	60, 941 211, 768	6 10	3 5	2	0	0	(1 2	-1 1	3 5
TopekaWichita	55, 411 88, 367	24 22	2 4	2	0	0	1 0	2 0	1 3
SOUTH ATLANTIC									
Delaware: Wilmington Maryland:	122, 049	5	2	5	0	0	tri	0	3
Baltimore Cumberland Frederick	796, 296 33, 741 12, 035	157 2 1	30 1 0	26 1 0	371 0 0	13 0 0	1, 108 0 7	127 0 0	56 1 0
District of Columbia: Washington	497, 906	27	20	21	2	2	26	0	35
Virginia: Lynchburg	30, 395	37	1	1	0	0	2	3	2
Norfolk Richmond Roanoke West Virginia:	186, 403 58, 208	4 7	6 2	5 1	0	1	10	2 3	13 3
Charleston	49, 019 03, 485 56, 208	0 0	2 1 2	2 2 5	0 0	0 0 1	3 5 0	0 0 1	2 0 3
Raleigh Wilmington Winston-Salem	30. 371 37. 001	9 8 7	1 1	0 0	0 0	0 0	0 0 107	0 0 2	0 0 5
South Carolina: Charleston Columbia Greenville	73, 125	0 2 6	1 1 0	2 0	0	1 0	0 0	0 1	0 0

¹ No estimate made.

# City reports for week ended January 23, 1926—Continued

			Diph	theria	Influ	ienza	Moo		
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases esti- mated expec- tancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- perted
SOUTH ATLANTIC—COIL.									
Georgia: AtlantaBrunswickSavannahFlorida:	(¹) 16, 809 93, 134	6 5 5	3 0 1	4 1 2	47 0 47	1 0 1	8 0 1	0 0	17 0 7
St Petersburg Tampa	26, 847 94, 743	0 4	1	0 3	0 1	0	0	0 2	1 3
EAST SOUTH CENTRAL									
Kentucky: Covington Louisville Tennessee:	58, 309 305, 935	0 4	0 9	1 3	0 4	0	0 5	0	3 12
Memphis Nashville Alabama:	174, 533 136, 220	14 5	5 2	5 2	0	3 6	0 46	0	11 3
Birmingham Mobile Montgomery	205, 670 65, 955 46, 481	24 2 6	3 1 1	2 0 1	12 2 4	1 1 0	4 0 0	2 0 16	13 2 0
WEST SOUTH CENTRAL									
Arkansas: Fort Smith Luttle Rock Louisiana:	31, 643 74, 216	5 1	0 1	1 1	0	·····ō	1 0	0	4
New Orleans Shreveport Oklahoma.	414, 493 57, 857	2 7	15 0	13 2	35 0	14	0	0	17 3
Oklahoma City Tulsa	(1) 124, 478	0 5	2 2	1 0	16 0	1	0	0	3
Texas: Dallas_ Galveston Houston San Antonio	194, 450 48, 375 161, 954 198, 069	32 1 2 1	7 1 4 2	10 0 6 3	7 0 0	3 0 0 2	1 0 1 0	0 0 1 1	17 2 7 16
MOUNTAIN									
Montana: Billings. Great Falls. Helena Missoula.	17, 971 29, 883 12, 037 12, 668	8 15 0 3	0 1 0 0	0 0 0 5	0 0 0 0	0 0 0	0 0 2 0	8 25 0 2	0 1 0 1
Idaho: Boise Colorado:	23,012	2	0	0	0	0	0	0	0
Denver Pucblo New Mexico	280, 911 43, 787	61	10 3	4 4	0	0	6 0	0	12 4
Albuquerque Utah:	}	4	0	0	0	0	1	0	1
Salt Lake City Nevada: Reno	12, 665	43	3 0	4 0	0	0	5 0	17	12
PACIFIC	12,000	۱							
Washington: Seattle	(1) 108, 897 104, 455	28 18 4	7 4 3	1 1 4	0 0	0	5 0	84 0 5	4
Oregon: Portland California:	282, 383	11	9	30	0	0	1	1 '	11
Los Angeles Sacramento San Francisco	72, 260 557, 530	39 4 16	45 3 25	39 0 7	40 10 39	1 2 8	11 0 8	60	7

¹ No estimate made.

City reports for week ended January 23, 1926—Continued

And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Scarle	l fever		Smallpo	×	Tuber-	ту	pboid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- porced	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	enlo- sis, deaths re- ported	Cases, esti- nated expect- ancy	Cases re- ported	Deaths re ported	ing cough, cough, coses	Deaths, all causes
NEW ENGLAND											:
Maine: Portland New Hampshire.	2	6	0	0	0	1	1	1	0	8	19
Concoid Manchester Vermont:	0 3	0 14	0	0	0	0 2	0	0	0	0	10 29
Barre Builington	1	7	0	0	0	i	0	0	0	ō	6
Massachusetts Boston Fall River Springfield Worcester	52 3 10	86 1 2 12	0 0 0	0 0 0	0 0 0	11 3 2 1	1 0 0 1	3 0 0	0 0 0	90 6 4 7	237 37 32 59
Rhode Island: Pawtucket	11	1	0	0	0	0	0	0	0	2 7	21
Providence Connecticut Bridgeport	8	-1 9	0	0	0	3	0	0	0	7	63 43
Hartford New Haven	8 10	4 2	Ů	0	ů 0	3	Ŏ 1	0	0	12 4	46 48
MIDDLE ATLANTIC							,	1			
New York: Buffalo New York Rochester Syracuse	23 221 13 16	14 190 31 5	0 0 0	0 0 0	0 0	1 125 5	1 11 0 0	4 7 3 0	0 1 0 0	36 91 11 83	158 1, 689 97 47
New Jersey: Camden Newark	4 24	17 40	0	0	0	3 14	0	1 0	0	2 23	39 120
Trenton Pennsylvania: Philadelphia	69	112	0	0	0	42	0 4	3	0	35	54 603
Pitisburgh Reading	34	5	0	0	0	i	0	0		<u>ő</u>	41
RAST NORTH CENTRAL											
Ohio: Cincinnati Cleveland Columbus	11 35 10	24 46 19	1 2 1	1 8 2	0 0	8 14 6	1 2 0	0 1 1	0 0 0	20 86 4	137 186 88
Toledo Indiana: Fort Wayne	18	30 17	3	0	0	6	0	0	0	5 1	87 23
Indianapolis South Bend Terre Haute Illinois:	9	17 4 5	6 0 1	24 11 0	000	1 0	) 0 0	0	0 0 0	37 1 1	108 12 24
Chicago Peoria	154 7 2	126 5 1	3 0 0	1 0 0	0 0	48 0 0	4 0 0	3 0 0	0 0 0	67 6 6	694 20 40
Springfield Michigan: Detroit Flint	95 10	143	4 1	1 0	0	28 0	2	0	0	73 30	348 17
Grand Rapids. Wisconsin.	12	28 7	0	0	0	0	0	0	0	38	35
Madison Milwaukee Racine Superior	38 6 2	21 1 8	0 2 1 3	0 0 0	0 0 0	0 4 0 1	0 1 0 0	0 0 0	000	4 88 6 3	117 13 7
WEST NORTH CENTRAL											
Minnesota: Duluth Minneapolis St. Paul	7 44 25	26 69 75	1 17 11	0	0	1 7 7	0 1 0	000	0 0	12 3 22	20 102 52

¹ Pulmonary tuberculosis only.

## City reports for week ended January 23, 1926—Continued

	fever		Smallpo	x	Tuber-	Ty	phoid f	ever	Wheep-		
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- perted	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST NORTH CENTRAL—COD.											
lowa: Davenport	2	2	2	0			0	0		0	
Des Moines	8	6	2 3 1	2			0	0		0	
Siour City Waterloo	2 2	0 2	1	4			0	0		0 2	
Missouri: Kansas City	15	22	2	0	0	6	0	0	0	16	94
St. Joseph	3 37	112	2 1 3	0	0	0	0	0	Ŏ	0 13	29 249
St. Louis North Dakota:										ŀ	l
Fargo Grand Forks South Dakota:	1 1	2 0	0	0	0	0	0	0	0	3 0	2
Aberdeen Sioux Falls Nebraska:	0 2	0 2	0	0 1	0	0	0	0	0	0	
Lincoln Omaha	2 5	4 15	0 6	0 9	0	0 3	1 0	0	0	8 9	18 62
Kansas: Topeka Wichita	2 4	4 9	1 0	0 2	0	2 0	0	0	0	0	13 24
SOUTH ATLANTIC								-			
Delaware: Wilmington	3	10	0	0	0	0	0	0	0	0	36
Maryland: Baltimore	40	26	0	0	0	16	2	1	0	53	283
Cumberland Frederick	0	0	0	0	0	1 0	0	0	0	1 0	11 7
District of Col.:	22	27	0	0	0	1	1	0	0	22	181
Washington Virginia:		1			1	14	1	-			1
Lynchburg Norfolk	1 2	3	0	0	0	0	0	0	0	4	10
Richmond Ronnoke	5	12 0	0	0	0	3 2	0	0	0	1 0	67 18
West Virginia: Charleston	1	0	0	0	0	0	0	1	0	2	20
Huntington Wheeling	0	3	1	0	0	1 1	0	0	0	0	10 25
North Carolina: Raleigh		1	1	1	0	1	0	0	0	0	14
Wilmington Winston-Salem	0 2	3 0	0 2	0	0	0 2	0	0	0	3 25	14 27
South Carolina: Charleston	. 1	2	0	0	0	2	0	0	0	0	20
Columbia Greenville	0	6	1 0	0	0	0	0	0	0	2 0	5
Georgia.		l	2	ļ	0	5	0	0	1	0	78
Atlanta Brunswick Savannah	3 0 1	3 0 0	0	0 0	0 0	0 4	0	0	0	0	31
Florida: St. Petersburg. Tampa	1	0	1 0	0 25	0	0 2	0	0	0	0	13 41
EAST SOUTH CENTRAL		1				-					
Kentucky:											
Covington Louisville Louisville	1 5	2	0	0	0	0	0	0	0		
Tennesece:	1	1	1	1	1	1	1		0		1
Memphis Nashville Alabama:	3	12	2	3	0		0	0	0		70 63
Birmingham	- 4	6	3	6	0						
Mobile	0	3	0	0	0	1 0	0		i l	i	

City reports for week ended January 23, 1926-Continued

							-					
	Scerle	t fever		Small;	zog		Tuber-	Т	pliodd f	ever	Whoop-	
Division, State, and city	Cases, esti- nuted expect- ancy	Cases re- ported	Cares, esti- mated expect- ancy	Case re- porte	1 :	eaths	eulo- 518, deaths re-	Cases, esti- mated expect- ancy	Cases 10- ported	Deaths 10- ported	ing cough, cases re- ported	Deaths, all causes
WEST SOUTH CENTRAL												
Arkansas: Fort Smith Little Rock	1 2	0	1			ō	<u>2</u>	0	0	<u>ï</u> -	0	
New Orleans. Shreveport Oklahoma:	0	9	0 4		2	0	16 0	3 0	5 0	0	2 0	181 19
Oklahoma City Tulsa Texas	2 2	2 2	$\frac{2}{1}$			0	2	0	0	0	0 5	23
Dallas Galveston Houston San Antonio	4 1 2 0	3 1 2 0	2 0 1 0	1	)	0 0 0	4 1 9 12	0 0 1 0	24 5 1 0	0 0 0	0 0 0	61 11 48 77
MOUNTAIN												
Montana: Billings Great Falls Helena Missoula	2 1 0 1	0 8 3 2	1 2 0 0		0 0	0 0 0	0 0 0	0 1 0 0	0 0 0	0 0 0 0	0 4 0 7	4 9 5 12
Idaho: Boise Colorado:	1	5	0		0	0	0	0	0	0	0	8
Denver Pueblo New Mexico:	11 2	16	3		0	0	8 2	0	0	. 0	50 0	66 15
Albuquerque Utah:	. 0	4	0	1	0	0	1	0	0	0	4	4
Salt Lake City. Nevada: Reno	1	6	0	j	0	0	0	0	0	0	21 0	42 1
PACIFIC					Ì			ļ				
Washington: Senttle. Spokane. Tacoma Oregon:	10 4 3	25 12 4	3 6 2		7	0	i	1 1 0	0 0	ō	გ 0 2	20
California:	. 6	14	10	1	4	0	1	1	0	0	0	****
Los Augeles Sacramento San Francisco		32 2 20	3 1 2		4 9 1	8 0 0	27 1 12	2 0 1	4 2 0	0 0	3 0 1	248 226
Maria de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración				rebros			thargic phaliti		ellagra	Polio	myelitis le paraly	(infan-
Division, St	ate, and	city	Ca	ses De	aths	Cases	Death	as Case	s Deat l	Cases esti- nater expect	l Cases	Deaths
NEW E	NGLAND		$\dashv$	-			-	-	-			
Rhode Island: Providence				1	0	0		0 0	,	0 0	0 0	0
Connecticut: Bridgeport Hartford				0	0	0		0 1	}	0	0 0	0
New York: Buffslo		· .		1	ģ	1,1		0 9		0	0 1 2	0
New York New Jersey: Newark				0	3 0	19	1	0 0	1	1	1 0	0

City reports for week ended January 23, 1926-Continued

	Cerebrospinal meningitis			hargie ohalitis	Pe	llagra	Polion tile	yelitis paraly	(infan-
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
MIDDLE ATLANTIC—continued									
Pennsylvania: Philadelphia	0	0	1	0	0	0	0	0	0
EAST NORTH CENTRAL									
Ohio: Cleveland Illinois.	ł	0	0	1	0	0	0	1	0
Chicago	t	1	O	0	0	0	0	0	0
Milwaukee	0	0	1	1	0	0	0	0	0
WEST NORTH CENTRAL Minnesota.						}			
Minneapolis	0	0	0	1	0	0	0	1	1
Nebraska. Omaha	1	1	0	0	0	0	0	0	0
SOUTH ATLANTIC	l								
Maryland: Baltimore.	0	1	0	0	o	0	0	o	0
North Carolina: Raleigh	1	0	0	0	0	1	0	0	0
South Carolina: Charleston	į.	0	0	0	0	1	0	0	0
Georgia: Atlanta	1	1	0	0	0	1	0	0	0
Savannah	i	ō	0	0	ő	Ġ	0	ŏ	ő
EAST SOUTH CENTRAL				1					
Tennessee						1			
Memphis	. 0	1	0	0	0	0	0	0	1
WEST SOUTH CENTRAL		1							1
Arkansas: Little Rock Louisiana:	. 1	0	0	0	0	o	0	0	o
New Orleans	. 0	0	0	0	1	0	0	0	0
Oklahoma: Oklahoma City	. 0	0	0	1	0	0	0	0	0
Texas. San Antonio	. 0	0	0	0	0	1	0	0	0
PACIFIC		1		1				İ	
Oregon: Portland	. 1	0	0	0	0	0	0	0	0
California: Los Angoles	1 -	5	0	0	0	0	1	0	0
San Francisco.		i	ő	ŏ	ŏ	ő	Ô	ŏ	

The following table gives the rates per 100,000 population for 103 cities for the four-week period ended January 23, 1926, compared with those for a like period ended January 24, 1925. The population figures used in computing the rates are approximate estimates as of July 1, 1925 and 1926, respectively, authoritative figures for many of the cities not being available. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and more than 29,750,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

. . . .

Summary of weekly reports from cities, December 27, 1925, to January 23, 1926— Annual rates per 100,000 population—Compared with rates for the corresponding period of 1924-25 1

#### DIPHTHERIA CASE RATES.

	Week ended							
	Jan. 3, 1925	Jan. 2, 1926	Jan. 10, 1925	Jan. 9, 1926	Jan. 17, 1925	Jan. 16, 1926	Jan. 24, 1925	Jan. 23, 1926
103 cities	149	129	145	170	167	145	159	2 143
New England Middle Atlantic East North Central. West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	249 140 141 171 138 84 141 102 160	139 124 129 154 126 109 146 109 124	247 130 122 139 161 110 137 231 185	139 182 151 283 178 52 189 182 97	173 187 132 247 115 84 185 148 196	144 151 135 253 141 67 120 127 81	165 174 121 193 144 74 154 281 213	3 131 4 139 131 206 5 162 73 155 155

#### MEASLES CASE RATES

New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central	150 367 120 277 10 50 16 9	2, 373 550 736 59 460 104 0	207 381 168 391 18 79 26 4	1, 146 3, 094 995 1, 761 148 1, 289 52 0	188 421 157 327 12 42 42 42 22	973 2,867 845 1,302 127 1,356 239 22	204 479 186 352 26 36 68 13	2 1, 368 3 2, 583 4 1, 145 2, 068 156 5 2, 638 285 13
West South Central Mountain Pacific	9 111 75	0 82 46	129 185	0 55 65	22 259 152	22 91 51	13 240 52	13 118 65

#### SCARLET FEVER CASE RATES

108 cities.	284	221	307	270	344	285	356	2 290
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	587	300	637	295	542	381	575	3 302
	285	166	323	210	202	237	325	4 223
	227	213	166	330	350	221	311	324
	549	493	733	580	731	548	780	609
	192	137	148	158	246	156	190	5 190
	158	99	210	119	168	140	168	202
	79	120	141	112	110	90	185	69
	157	216	370	237	518	319	296	373
	155	205	180	213	171	207	210	256

#### SMALLPOX CASE RATES

103 cities	41	23	55	33	56	47	68	1 36
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	0 3 25 125 36 341 31 46 108	0 1 22 18 24 73 22 36 148	0 3 38 213 29 362 62 28 141	0 0 48 65 43 47 52 36 111	0 10 37 187 58 200 31 55 202	0 2 37 51 68 57 146 18 286	0 6 175 35 620 31 92 199	4 0 4 0 33 86 6 60 47 99 27 194

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1925 and 1026, respectively.

8 Barre, Vt., Pittsburgh, Pa., and Norfolk, Va., not included.

8 Barre, Vt., not included.

9 Pittsburgh, Pa., not included.

9 Norfolk, Va., not included.

Summary of weekly reports from cities, December 27, 1925, to January 23, 1926— Annual rates per 100,000 population—Compared with rates for the corresponding period of 1924-25—Continued

#### TYPHOID FEVER CASE RATES

				Weel	c ended—	-			
	Jan. 3, 1925	Jan. 2, 1926	Jan. 10, 1925	Jan. 9, 1926	Jan. 17, 1925	Jan 16, 1926	Jan. 21, 1925	Jan. 23, 1926	
103 cities	36	10	32	13	20	11	17	2 13	
New England Middle Atlantic East North Central. West North Central. South Atlantic East South Central West South Central. Mountain Pacific.	26 4 38 37	7 7 6 11 31 47 9	14 49 13 6 52 47 66 9 25	31 14 11 2 9 16 22 9	21 21 22 10 19 16 06 0	2 16 8 4 8 16 13 9	19 20 10 6 12 26 40 46 14	3 9 4 10 3 4 6 8 5 151 9	
. INFLUENZA DEATH RATES									
96 cities	18	15	20	21	21	23	21	2 20	
New England Middle Atlantic East North Ceneral West North Central South Atlantic East South Central West South Central West South Central Pacific	25	12 10 8 15 19 31 43 27	17 20 15 13 33 42 39 18	9 18 12 8 15 83 47 46 57	20 18 14 2 42 42 42 82 28 11	14 16 11 19 23 88 80 64 46	10 20 17 19 21 58 87 9	3 7 4 15 8 10 5 42 57 94 18	
P	NEUM	ONIA D	ЕЛТН	RATES					
96 cities	195	184	185	220	206	211	202	2 198	
New England Middle Atlantie East North Central West North Central South Atlantie East South Central West South Central West South Central Mountain Pacific	168 225 155 91 232 278 324 222 167	210 186 142 117 261 259 312 264 135	117 227 143 87 232 268 247 222 164	246 229 176 140 289 332 335 127 220	151 259 143 104 271 173 426 240 145	208 236 153 125 276 285 354 328 167	208 233 132 117 242 294 343 314 185	3 209 4 227 139 81 4 300 228 312 273 185	

 $^{^2}$  Barre, Vt., Pittshurgh, Pa., and Norfolk, Va., not included.  3  Barre, Vt., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively.

Group of cities	Number of cities reporting	Number of cities reporting	Aggregato of cities cases	population reporting	Aggregate population of cities reporting deaths		
	casos	deaths	1925	1926	1925	1926	
Total	103	96	29, 941, 996	30, 473, 129	29, 251, 658	29, 764, 201	
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	12 10 16 14 21 7 8 9	12 10 16 11 21 7 6 9	2, 176, 124 10, 346, 970 7, 481, 656 2, 594, 962 2, 716, 070 993, 103 1, 184, 057 563, 912 1, 888, 142	2, 206, 124 10, 476, 970 7, 655, 436 2, 634, 007 2, 776, 070 1, 004, 953 1, 212, 087 572, 773 1, 934, 084	2, 176, 124 10, 346, 970 7, 481, 656 2, 461, 380 2, 716, 070 903, 103 1, 978, 198 563, 912 1, 434, 245	2, 206, 124 10, 476, 970 7, 655, 436 2, 499, 036 2, 776, 070 1, 004, 953 1, 103, 696 572, 773 1, 469, 144	

⁴ Pittsburgh, Pa., not included. ⁵ Norfolk, Va., not included.

## FOREIGN AND INSULAR

#### THE FAR EAST

Report for week ended January 9, 1926.—The following report for the week ended January 9, 1926, was transmitted by the Far Eastern Bureau of the health section of the League of Nations' secretariat, located at Singapore, to the headquarters at Geneva:

	Pla	gue	Cho	lera.	Sma	llpox
Port	Cases	Deaths	Cases	Deaths	Cases	Deaths
Calcutta		0		23 0	18	10
Bombay		2 0		16	10	1 3
Madras		3		10	15 7 7	9 4 0 2 0 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Rangoon		ő		ŏ	3	1 8
Karachi		0		4	2	8
Negapatam		ŏ	0	å	9	, ×
Colombo		1 2	ŏ	ŏ	0 2 8	1 2
Basra		0 2	0	l ŏ	ő	
Singapore		ő	ŏ	ŏ	ő	8
Port Swettenham		Ö	ŏ	ŏ	ŏ	0
Penang		ŏ	0	ŏ	ŏ	1 %
Batavia		ő	ŏ	ő	2	1 8
Soerabaya		ő	lő	ŏ	· õ	ñ
Samarang Belawan Deli	:	l ŏ	Ĭŏ	ŏ	ŏ	l ő
Dodona (Vernotea)		l ŏ	0	lő	lŏ	l ă
Padang (Sumatra) Sabang (Rhio)		lő	lő	ő	lő	1 6
Macassar		ı	l ŏ	ŭ	ŏ	1 8
Pontianak (Borneo)		İ	lŏ	ő	ŏ	ŏ
Sandakan (North Borneo)		ŏ	lő	ě	ŏ	ŏ
Manila.	i ŏ	ŏ	ľ	i	ŏ	ŏ
Zamboanga	] 0	ő	Î	Ô	ľő	ŏ
Baugkok	Ĭ	! ŏ	36	30	2	í
Saigon and Cholon	ة اد	1 0	1 0	ı	Ō	l õ
Hong Kong	il ŏ	l ŏ	ŏ	Ô	ĭ	Ŏ
Shanghai		ŏ	ŏ	ŏ		18
Amoy	il ŏ	ŏ	ŏ	ŏ	0	0
Nagasaki	1 0	ŏ	lŏ	ő	ŏ	Ö
Yokohama	Ĭŏ	ŏ	Ĭŏ	Ü	Ö	Ö
Simonoseki	ĭ	ŏ	lŏ	ŏ	Ö	Ŏ
Moji	il ŏ	ŏ	Ŏ	0	ő l	Ö
Kobe		ŏ	ŏ	Ö	0	Õ
Osaka		Ö	0	U	0 1	0
Keelung	. 0	0	0	0.1	0	0
Fusan		0	0	U	0 )	0
Dairen	_ 0	0	0	0 1	53	Ö
Adelaide	_ 0	0	0	0.1	()	t)
Brisbane	_ 0	0	0	0	0	0
Fremantle		0	0	0	O	0
Melbourne		0	0	0	0	. 0
Sydney	_ 0	0	0	0	0	0
Rockhampton	_ 0	0	0	0	0	Q
Townsville	_ 0	0	0	0	0	0
Port Darwin	. 0	0	0	0	0	0
Broome	- 0	0	0	0	0	0
Port Moresby	. 0	0	0	0	0	0
New Zealand	. 0	0	0	0	0	0
Honolulu	. 0	0	0	0	0	0
Suez	. 0	0	0	0	0	ŭ
Alexandria	. 0	0	0	O I	0	Û
Port Said	. 0	O O	0	0	0	ŭ
Mombasa (Kenya)	. 0	0	0	0	0	9
Massowah	. 0	0	0	0	0	ŭ
Djibuti	. 0	0	0	0	0	Ŏ
Mozambique	. 0	Q	0	0	0	Ŏ
Lourenco-Marques	0	Ö	0	0	0	ŭ
Durban East Landar	l ă	Q.	0	0	ğ	ň
East London	. 0	0	0	0	0	ă
Port Elizabeth	2	0	0	g l	Ň	, N
Cape Town Port Louis (Mauritius)	0	0	0	0	0	000000000000000000000000000000000000000
Seychelles.	ő	8	0	0	. 0	ő

#### ARGENTINA

Plague in interior Provinces.—During the week ended January 30, 1926, six cases of plague were reported in the interior Provinces of Salta and Santa Fe, Argentina. The foci were isolated, and the ports were said to be free from the disease.

#### BRAZIL

Malaria mortality—Para.—During the week ended January 9, 1926, six deaths from malaria were reported at Para, Brazil.

#### CANADA

Communicable diseases—Week ended January 23, 1926.—The Canadian Ministry of Health reports certain communicable diseases in seven Provinces of Canada for the week ended January 23, 1926, as follows:

	Nova Scotia	New Bruns- wick	Quebec	Ontario	Mani- toba	Sas- katche- wan	Al- berta	Total
Cerebrospinal fever Poliomyelitis Smallpos Typhoid ievei		3	3	31 11	1 3 1	1 10 48	15	1 1 59 66

#### **CZECHOSLOVAKIA**

Communicable diseases—July-September, 1925.—During the period July 1 to September 30, 1925, communicable diseases were notified in Czechoslovakia as follows:

Diseaso	Cases	Deaths	Provinces showing greatest number of cases and deaths
Anthrax Cerebrospinal meningitis Diphtherin Dysentery Mularin Paratyphoid fover A Paratyphoid fever B Rubies Searlet fever Trachoma Typhoid fever Typhoid fever Typhus fever	805 400 76 2 28 5 2, 560 760	10 56 48 	Slovakia: Cases, 11.  Bohemia: Cases, 8: deaths, 4.  Bohemia: Cases, 422; deaths, 37.  Slovakia: Cases, 181; deaths, 23.  Russma: Cases, 70.  Bohemia.  Bohemia.  Bohemia.  Bohemia.  Cases, 1,614; deaths, 6.  Slovakia: Cases, 371.  Monavia: Cases, 754; deaths, 51.  Russinia.

Population, 13,611,349.

#### **ECUADOR**

Plague—January 1-15, 1926.—During the period January 1 to 15, 1926, plague was reported in Ecuador as follows: Eloy Alfaro, one case; Guayaquil, cases, 15; deaths, 5; Recreo (country estate), one case.

Plague-infected rats—Guayaquil.—During the period under report, of 11,864 rats taken, 80 rats were found plague infected.

Place

#### **TRELAND**

Typhus fever—Cork—Galway.—Under date of January 8, 1926, five cases of typhus fever were reported present in hospital at Cork, Ireland. Two cases were reported discharged from hospital during the previous week. The localities in which the cases occurred were not stated. Previous occurrence of typhus fever in Ireland has been reported as follows: October 17, 1925—one case in County Galway; November 14, 1925—one case at Dunmanway, County Cork.

#### MEXICO

Influenza mortality—Vera Cruz—January 10–16, 1926.—During the week ended January 16, 1926, 10 deaths from influenza were reported at Vera Cruz, Mexico, in a total of 69 deaths from all causes reported. Population, 1922—57,000.

#### CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

### Reports Received During Week Ended February 12, 1926 1

#### CHOLERA

Date

Cases

Deaths

Remarks

Nov. 22-28, 1925; Cases. 2,259;

deaths, 1,385.

Siam: Bangkok	Dec. 13-19	48	29	, , ,						
PLAGUE										
Argentina				Jan. 24-70, 1926; Cases, 6, Oc- curring in interior Provinces of Salta and Santa Fo.						
Ecuador: Eloy Afaro Guayaquil Recreo (country estate) India	do	15	5	Bats taken, 11,864; found in- feeted, 20. Nov. 22-23, 1526; Cases, 1,480;						
Iraq: BagdadJava:	Dec. 13-26	4	1	deaths, 1,038.						
Batavia Cheribon	Nov. 15-28		60 59	Province.						
Pekalongan Soerabnya Tegal Straits Settlements:		1	80 1 14							
Singapore	Nov. 22-Dec. 5	3	3							

¹ From medical officers of the Public Health Service, American consuls, and other sources.

# Reports Received During Week Ended February 12, 1926-Continued

#### SMALLPOX

Place	Date	Cases	Deaths	Remarks
Brazil Rio de Janeiro	Dec. 6-26	65	26	
British South Africa: Southern Rhodesia.	Dec. 17-23	1		
Canada Alberta	Jan 17-23			Jan. 17-23, 1925: Cases, 59,
Manitoba	Jan. 24-30	3		
Winnipeg Ontario	Jan 17-23	31		
Toronto Saskatchewan	do			
China: Chungking	Dec. 13-19		********	Present.
Foochow. Manchuria—	Dec. 6-26			Do.
DanenShanghai	Dec. 7-20 Dec. 20-26	27 7	5 G	Cases, foreign; deaths, native and foreign
Do	Dec. 27-Jan. 2	7	5	Do
Tientsin	Dec. 13-19	1		Reported by British municipality.
Egypt: Alexandria	Dec 17-31	4	1	•
Great Britain England and Wales—				
Sheffield Do	Dec. 20–26 Dec. 27–Jan. 9	3 2		•
India Bombay	Dec. 13-19	3	2	Nov. 22-28, 1925: Cases, 1,892; deaths, 431.
Iraq: Bagdad	Dec. 13-26		2	Courtagy 2021
Java: Batavia	Dec. 12-18	1	~	Province. City. Nov. 15-21,
Cheribon	Nov. 8-14	ī		1925: 1 case.
Pekalongan Soerabaya	Oct. 25-31. Nov. 29-Dec 5	1 73	14	
Mexico: Aguascalientes	Jan. 17-23 Jan. 19-25		1	
Guadalajara San Luis Potosi	Jan. 19-25 Jan. 17-23		2 3	
Persia: Teheran			135	
Portugal: Lisbon	Dec. 7-27	1	20	*
Switzerland: Zurich	Dec. 27-Jan. 2	1		
	TYPHUS	S FEVE	R	
Chile:			1	,
ValparaisoChina:	Dec. 27-Jan. 2		1	
Manchuria— Harbin	Dec. 17-23	1		
Ireland: Cork County—				
Cork. Do	Dec. 26-Jan. 1 Jan. 2-8			Discharged from hospital. In hospital. Places of origin
Dunmanway	Nov. 14	1		not stated.
Galway County Palestine.		1		
Gaza	Dec. 18	1		Į.

# Reports Received from December 26, 1925, to February 5, 1926 ¹ CHOLERA

GIOLERA				
Place	Date	Cases	Deaths	Remarks
India	Nov. 1-28 Dec. 6-12 Nov. 15-Dec. 26 Nov. 8-Dec. 5	101 23 146 4	89 30 57 4	Oct. 18-Nov. 21, 1925; Cases, 8,732; deaths, 5,113.  September, 1925; Cases, 9; deaths
Province— Annam Cochm China Tonkin Japan Philippine Islands: Manila Do	do	2 5 2 400 8 5	2 3 6 2	<ol> <li>September, 1924: Cases, 7 deaths, 4. (European cases, 2.)</li> <li>September, 1924: None.</li> <li>September, 1924: 1 ease; 1 death</li> <li>September, 1924: None.</li> </ol>
Provinces— Batuan. Bulaean. Do. Laguna Nueva Ecija. Pampanga	Nov. 30-Dec. 13 Oct. 18-Nov. 7 Nov. 23-Dec. 13 do do Nov. 1-7 Nov. 23-Dec. 13 Sept. 27-Nov. 21 Dec. 7-13 May-June.	10 92 179 16 6 1 80 75	8 64 69 13 2 1 56 21 12	
Siam: Bangkok Do. On vessel: Steamship	Oct. 4-Nov. 14 Nov. 22-Dec. 12	108	68 88	Arrived at Bangkok, Siam; cases in coolie passengers.

#### PLAGUE

		1	1	1
Brazil:		Į.		
Bahia	Nov. 8-14	2	l	
Santos	Dec. 8-21	l	2	
British East Africa:			_	
Kenya-		i	I	
Kisumu	Nov. 22-Dec 5	1	2	
Uganda Protectorate			85	
Canary Islands:	"Olynchiper reserve	100		
La Laguna	Dec. 24	3	2	
Las Polmas	do		-	
Santa Ciuz de Tenerifie	Dec. 18-27			
Ceylon:	Dec. 13-2/			
Colombo.	Nov. 15-28	3	3	
Do	Nov. 29-Dec. 5		٥	1 plague rodent.
China:	1404. 28-Dec. 5			1 Intestitus contesto.
Nanking	Nov. 15-Jan. 2		l l	Prevalent.
	NOV. 13-38H. 2			r revalent.
Ecuador:	37 1 D 01	01	10	*********** **************************
Guayaquil	Nov. 1-Dec. 31	31	12	Rats taken, Nov. 1-Dec. 31, 1925:
***	ĺ		i i	49,370; rats found infected, 281.
EgyptBeni Suef				Jan. 1- Dec. 9, 1925; Cases, 138,
Beni Suef	Nov. 18	1	1	Corresponding period, 1924:
Fayoum Province	Dec. 3-9	1	1	Cases, 365.
Greece:				
Athens	Nov. 1-30	18	4	Including Piræus.
Patras	Nov. 13-Dec. 12	4	1	-
India				Oct. 18-Nov. 21, 1925; Cases, 5,940;
Bombay	Dec. 6-12	1	1 )	deaths, 3,943.
Calcutta	do	1 1	1	• • • •
Karachi Madras Do	Nov. 1-Dec. 19	4	3	
Madras	Oct. 25-Nov. 7	75	41	
Do	Nov 15-21	85	22	
Rangoon.	Oct. 25-Dec. 12	19	12	
Indo-China				September, 1925: Cases, 17;
				deaths, 16. September, 1924;
Province-		1	l	Cases, fatal, 12.
Cambodia	Sept. 1-30	11	11	September, 1924: Cases, 9; deaths,
			**	1.
Cochin China	do	6	5	September, 1924: 1 case, 1 death,

¹ From medical officers of the Public Health Service. American consuls and other sources

### Reports Received from December 26, 1925, to February 5, 1926—Continued

#### PLAGUE-Continued

Place	Date	Cases	Deaths	Remarks
Java:				
Batavia	Oct. 21-Nov. 6	94	89	Province.
Do	Nov. 14-Dec. 4	169	159	110,111001
Cheribon	Sept. 27-Oct. 17		166	
Djokjakarta	Oct. 20-Nov. 9			Enidemic in one locality.
Kediii	Dec. 7			Do.
Pekalongan	Sept. 27-Oct. 17		42	
Rembang.	Oct 20	i		Do.
Socrabaya	Oct. 11-Nov. 28	36	36	
Tegal	Sept. 27-Oct. 17	6	6	
Madagascur:		_	- 1	
Province—				
ltasy	Sept. 16-Oct. 31	20	20	
Moramanga	do	17	17	
Tananarive	do	174	159	
Town-				
Fort Dauphin	Sept. 16-Oct. 15	5	2	
Tamatave (port)	Sept. 16-30	3	2	
Do	Oct. 16-31	4	4	
Tananarive	Sept. 16-30	2	2	
Mauritius Island	Sept 20-Nov. 14	9	9	
Nigeria	August-September	349	267	
Peru:				
Huacho	Jan. 26	15		Port 60 miles north of Callao.
Russia	May-June	67		
Do	July-August	139		
Senegal	September-Octo-	45	25	
	ber.			
Siam	Aug. 23-Oct. 13	50	40	
Bangkok	Nov. 15-28	3	3	
Straits Settlements:			[	
Singapore	Nov 1-21	5	5	
Syria:				
Beirut	Nov. 11-20	1		
Union of South Africa				
Cape Province-		}	1	
Middleburg district	Dec. 6-12	1		European.
Steynsburg district	Nov. 15-21	1		Native. On farm.
Orange Free State-		1		
Boshof district	Nov. 29-Dec. 5	1	1	In native.
Bothaville district	Dec. 6-12	1	1	Native. On farm.

#### **SMALLPOX**

			, ,	1
Algeria:				
Algiers	Nov. 21-Dec. 20	109		
Arabia.				
Aden	Nov. 29-Dec. 5	1		Imperted.
Argentina:			_	
Ros rio	October		1	
Australia:				
Queensland— Brisbane	Dec. 9-15	1		
Brazil:	Dec. 9-15	1		
Rio de Janeiro	Nov. 1-28	134	72	
British East Africa:	1407.1-20111111	101		
Kenya—				
Mombasa	Nov. 15-Dec. 12	14	5	
Uganda Protectorate	Sept. 1-30	7	4	
British South Africa:				
Southern Rhodesia	Nov. 13-Dec.10	2		
Canada				Sept. 13-Jan. 2: In 7 Provinces,
Alberta	Jan. 10-16	2		186 cases.
Calgary	Dec. 13-19	1		From Drumheller, vicinity of
75 (1.1. A.1		,		Calgary.
British Columbia—	Jan. 4-10.	1		
Vancouver Manitoba	Jan. 3-9	14		
Winnipeg	Jan. 9-9	2		
Do	Jan. 3-23	7		i
New Brunswick-	00000	'		
Northumberland	Dec. 6-13	1		

## Reports Received from December 26, 1925, to February 5, 1926—Continued

#### SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
Canada—Continued.				There has some of mo
Ontario		2		December, 1925 Cases, 32
Ottawa	Dec. 6-12	1		deaths, 1. Occurring in 18
Do	Jan. 3-9	1		localities. January 3-16, 1926
Toronto	Dec. 27-Jan. 2	20		Cases, 35.
Do	Jan. 3-16dodo	5		
Saskatchewan Moose Jaw	do	2		
Ceylon. Colombo	Dec. 6-12	1		Port case.
China: Amoy	Oct 25-Dec 19		1	
Antung	Dec 7-20	2		
Chungking	Nov. 15-Dec. 26			Present.
Foochow	Nov. 1-21			Do.
Hankow	Nov. 14-Dec. 26	4		
Hongkong	Nov. 22-28	3		
Manchuria-	D 0.10	1	1	
An-shan	Dec. 6-12	40	10	Í
Dairen Mukden	Oct. 19-Dec. 6 Oct. 24-Nov. 15	1	10	
Tieh-ling	do	2		
Nanking.	Nov. 21-Dec. 26 Dec. 27-Jan. 2	-		Do.
Do	Dec. 27-Jan. 2			Do.
Shanghai	Oct. 25-Dec. 19	23	25	
Swatow	Nov. 22-Dec. 5			Do.
Tientsin	Nov. 1-7	1		.[
Egypt:				
Alexandra	Dec. 3-9	- 1	1	
Gold Coast	September, 1925	14	4	September, October, 1925: Cases,
Gold Coast Great Britain:	1 -		1	
Eagland and Wales	Nov. 15-Dec. 26	790		
Do	Dec. 27-Jan. 2	203		
Hull	Dec. 27-Jan. 9	14		1
Newcostle-on-Tyne	Nov. 29-Dec. 19 Dec. 27-Jan. 2	1		1
Do Nottingham	Dec. 13-26	5		1
Sheffield	Nov. 22-Dec. 12	7		
Greece				Oct. 1-31, 1925: Cases, 16.
Athens	Nov. 1-30	17	1	Oct. 18 -Nov. 21, 1925; Cases,
India	Nov. 8-Dec. 12	19	14	6,935; deaths, 1,484.
Calcutta	Nov. 29-Dec. 12	29	18	0,500, (10015, 1,101.
Karachi	Nov 1-21	23	1	
Do	Nov. 1-21 Nov. 29-Dec. 5	4	2	
Do	Dec. 13-19	3		
Madras	Nov. 15-Dec. 26	17	5	
Rangoon	Oct. 25-Nov. 28	. 3		
Do	Dec. 6-12	2	1	
Indo-China				September, 1925. Cases, 122; deaths, 33. September, 1924; Cases, 78; deaths, 22.
Dunasiman	1	i		deaths, 33. September, 1924;
Province— Annam	Sept. 1-30	47	9	September, 1924; Cases, 8;
	1	ł	i	deaths, 2.
Cambodia	_ do	29	8	September, 1924: Cases, 16;
Cochin China	do	28	16	deaths, I. September, 1924: Cases, 43;
Tonkin	do	18		deaths, 19. September, 1924: Casas, 11.
Irag		10		Sept. 6-Oct. 17, 1925; Cases, 81;
Bagdad	Nov. 1-14	4	4	deaths, 40
Do	Nov. 22-Dec. 5	9	9	•
Italy				Aug. 2-Oct. 31, 1925; Ceses, 38,
Rome	Oct 12-25	1		
Jamaica	737 05.75			Nov. 27- Dec. 26, 1925; Cases, 52.
Kingston	Nov. 27-Dec. 26	43		Reported as abstrim,
Japan:	Man 11 Dec 70	_	1	
Taiwan Yokohama	Nov. 11-Dec. 10	3		
Java:	Dec. 14-20	1		,
	10.000	1		*
Batavia				
Batavia	Nov 14-97			Province und off
Batavia	Nov. 14-27	5	*********	Province and city.
Batavia	Nov. 14-27 Oct. 11-17		*********	Province and city.

## Reports Received from December 26, 1925, to February 5, 1926—Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks		
Java—Continued. Probolingo Soerabaya. South Bantam. Tegal. Malta. Mexico. Do. Durango. Guadalajara. Mexico City. Do.	Oct. 11-17. Oct. 11-Nov. 28. Oct. 11-Nov. 28. Oct. 11-17. Oct. 4-10. November. Dec. 13-Jan. 2. Jan. 6-16. Dec. 1-31. Dec. 29-Jan. 18. Nov. 28-Dec. 5.	1 394 1 9 14 	54 1 3 3 3 1 4	July-September, 1925: Deaths, 1,157.  Including municipalities in Federal district.		
Torreon. Nigeria. Persia: Teheran. Peru:	Nov. 1-Dec. 31 A u g u s t-S e p - tember. July 23-Aug. 23	103	51 1 68			
Arequipa Poland Portugal: Lisbon Do Do Opporto	Oct. 1-31 Oct. 4-31 Nov. 16-Dec. 6 Nov. 14-Dec. 19 Nov. 22-Dec. 19	124 179 2	1 31 3	Nov. 1-7, 1925: Cases, 8.		
Do	Dec. 27-Jan. 2	760		May-June, 1925: Cases, 2,333. Later than previously published reports. July 12-Sept. 5, 1925: Cases, 21;		
Spain: Madrid Malaga Do. Valencia Do. Spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spain-spai	Year 1925 Nov. 29-Dec. 5 Dec. 27-Jan. 2 Dec. 20-26 Dec. 27-Jan. 2	1 1	18 2 1	deaths, 6.		
Switzerland Lucerno. Tunisia: Tunis Do. Do. Union of South Africa:	Oct. 1-Nov. 30 Nov. 21-30 Dec. 11-31 Jan. 1-10	8 2 10 1	1	June 28-Nov. 21, 1925: Cases, 62.		
Transvaal— Pretoria District	Dec. 6-12			Outbreaks. In native compound.		
TYPHUS FEVER						
Algeria: Algiers	October-Dec. 20	4		^		
Rosario Bulgaria Chile: Valparaiso	September-Oc- ber. Nov. 29-Dec. 5	26	2 1			
Czechoslovakia Egypt:	Nov. 29-Dec. 27 October, 1925	5 8	1			
Port Said Finland France Germany Greece:	July-October Oct. 25-31	1 4 1		October, 1925: One case.		
AthensLithuania	Nov. 1-30 October, 1925	11 2	2	September-October, 1925: Cases, 9; deaths, 1.		

# CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

## Reports Received from December 26, 1925, to February 5, 1926—Continued

#### TYPHUS FEVER-Continued

Place	Date	Cases	Deaths	Remarks
Mex100				July-September, 1925: Deaths,
Aguascalientes	Dec. 14-19	1		90.
Durango	Dec. 1-31		1	
Guadalajara	Dec. 8-Jan. 4		3	
Mexico City	Nov. 22-Jan 9			Including municipalities in Fed-
Tampico	Dec. 21-Jan. 10	1	1	eral district.
Torreon	November, 1925	!	1	
MoroccoPalestine.	August, 1925	3		
Jafia	Dec. 1-7			
Nazareth	Nov. 3-9			
Safad	Nov. 24-30	1		
	do	1		
Peru:	0 1 1 1001		1 -	
Arequips	October, 1325		2	
		142	16	Tule 1005, Come 74, donatha 0
Rumania Russia				July, 1925: Cases, 74; deaths, 9. May-June, 1925. Cases, 10,680.
17(1991)				Later than previously published reports.
Do			l	July-August, 1925; Cases, 3,136,
Do Union of South Africa				July-August, 1925: Cases, 3,136, Oct. 1-31, 1925. Cases, 88; deaths, 7 (colored); cases, 7
				deaths, 7 (colored); cases, 7
			İ	(European population).
Cape Province	Oct. 1-31	63	5	
Do	Nov. 8-14			Outbreaks in two districts.
Middleburg District	Dec. 6-12	1		European On farm.
Natal	Oct. 1-Dec. 5	1		
Orange Free State	Nov. 29-Dec. 5		1	O-dharaka
Do	Nov. 1-7			Outbreaks.
Bothaville District	Dec. 6-12do	i		Native. On farm.
Transvaal	Oct. 1-31	i	1	Name. Of farm.
I I allo vaai	Oct. 1-01	1	•	
	YELLOV		ъ	
	ILLLOV	v PEVE		and the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of th
Gold Coast	September	1	1	,
Nigeria	August-Septem-	2	î	
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## TREASURY DEPARTMENT.

# PUBLIC HEALTH REPORTS

ISSUED WEEKLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

Volume 41 :: Number 8

FEBRUARY 19 - 1926

### SPECIAL ARTICLES =

Butter, Fresh Beef, and Yeast as Pellagra Preventives Bacterial Pollution and Natural Purification in Rivers Measles in the United States, 1923, 1924, and 1925



WASHINGTON
GOVERNMENT PRINTING OFFICE
1926

#### UNITED STATES PUBLIC HEALTH SERVICE

Hugh S. Cumming, Surgeon General

#### DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg. Gen. B. J. LLOYD, Chief of Division

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# PUBLIC HEALTH REPORTS

VOL. 41 FEBRUARY 19, 1926 NO. 8

A Further Study of Butter, Fresh Beef, and Yeast as Pellagra Preventives, with Consideration of the Relation of Factor P-P of Pellagra (and Black Tongue of Dogs) to Vitamin B

By Joseph Goldberger, Suigeon; G. A. Wheeler, Surgeon; R. D. Lillie, Passed Assistant Surgeon; and L. M. Rogers, Assistant Surgeon, United States Public Health Service

A pellagra-preventive feeding experiment begun in 1914 by Goldberger, Waring, and Willets and carried on for a period of three years resulted in demonstrating the complete preventability of pellagra by This experiment was of such a character, however, diet alone (1). that it did not in itself reveal just what food or foods were to be credited with the preventive action. It could be considered as suggesting, at most, that the fresh meat and milk of the diet were concerned in bringing about the protective effect. The probability that both meat and milk contained the factor or factors which operated to prevent the development of the disease gained strength from the results of a study of the relation of diet to pellagra incidence among households of certain South Carolina cotton-mill villages carried out during 1916 by Goldberger, Wheeler, and Sydenstricker (2). In that study it was found not only that pellagra occurred less frequently or not at all in households having a daily minimum average supply of approximately a pint of milk or 30 grams of fresh meat per adult unit, but also that an increasing supply of each of these foods independently of the other was definitely associated with a decreasing pellagra incidence.

The soundness of the inference drawn from these studies, together with the inference from such epidemiological observations as the well-known rarity of the disease in nursing infants, that milk when a generous element in the diet operates to prevent pellagra was, in 1922, demonstrated by Goldberger and Tanner (3) by direct test. In that test it was found that a daily supplement of approximately 1200 grams (40 fluid ounces) of fresh buttermilk prevented the development of recognizable evidence of the disease in all of a group of 25 insane patients during a period of observation of one year when, in the absence of the buttermilk or other equivalent preventive, upward of 40 or 50 per cent of the group would, judging by previous experience, have developed the disease within a period of three to seven or eight

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months. A test of dry skim milk (a Merrel-Soule product) carried out by the same workers (4) during the period July, 1923-September, 1924, resulted in showing that when taken in a daily quantity (105 grams) approximately equivalent (on the basis of protein content) to that of the fresh buttermilk, the dry skim milk was not fully adequate as a pellagra-preventive, and thus distinctly inferior to fresh buttermilk, since of some 22 pellagrins taking the dry skim milk, four developed either definite or very suggestive evidence of a recurrence of the dermal lesions of pellagra. The inferior potency of dried skim milk was recently further impressed on us by observing the occurrence of two recurrent attacks in a patient on a liquid diet containing 125 grams of such milk. ¹

#### Butter

The evidence that milk had preventive action in pellagra naturally suggested an inquiry as to whether butter had similar properties. In a previous communication (3) mention was made of the very disappointing results of such an inquiry. The butter to which this had reference was from the general supply of the Georgia State Sanitarium and was produced in batches of a few pounds each by farmers in the general vicinity of this institution in central Georgia and sold by them to the Sanitarium. The study was made at a season when the cows yielding the butter were and had for some time been largely pasture fed. Although tried repeatedly and in increasing quantities (in several instances the patients were known to have consumed an average of approximately 135 to 145 grams daily during a period of from three to upward of five months), this butter practically invariably failed to prevent recurrence of the disease.

The favorable results in the treatment and prevention of the Chittenden-Underhill (5) pellagralike disease of dogs (black tongue (6)), reported by Underhill and Mendel (7), with butter from a Northern locality suggested, in view of the possibility, if not probability, that this canine disease may be the analogue of human pellagra, the

As this observation has a number of interesting bearings, mention of the more significant details may here be made:

A white, insane, female pellagrin, 35 years old and weighing 47 kilos, came under observation May 14, 1924. with mild dermal pellagra. The dermal lesions persisting, though with remissions, and the patient being so poor an eater as to make tube feeding from time to time necessary, she was changed on July 19, 1924, from the general ward diet to the following liquid diet: Dry skim milk (Merrel-Soule), 125 grams; cod liver oil, 28 grams; cottonseed oil, 70 grams; sucrose, 200 grams; tomato juice (from canned tomatoes), 170 grams; table salt, 5 grams in water. The dermal condition now cleared up, but a stomatitis gradually developed, and on September 29, 1924, that is, about two months after beginning this milk diet, the distinctive dermatitis reappeared. On October 10 she began taking a supplement of "Yeast Vitamine-Harris Powder." 25 grams daily. Eight days later this was reduced to 10 grams. Gradually the dermatitis and stomatitis cleared up. 'On January 15, 1925, the patient appearing in excellent condition, the "yeast vitamine" supplement was discontinued. She continued seemingly in good condition, taking all the milk ration until April 29. 1925, when lesions that proved to be those of a pellagrous dermatitis began to appear on her hands. Thus this patient had a relapse of her attack of pellagra at the end of a period of about two months, during which she daily consumed 125 grams of dry skim milk (representing about 44 grams of milk proteins), and a recurrencé of the disease at the end of a further period of about seven months of this diet, or about three and a half months after discontinuing the supplement of a commercial yeast concentrate.

desirability of trying butter from a similar locality in the human disease. And this all the more as it seemed possible that butter from a northern dairying locality, presumably affording superior pasture at certain seasons, might be more potent in the factor preventing black tongue (and, possibly, pellagra) than that from the nondairying region of central Georgia. Accordingly, a supply of such butter laid down in Vermont early in July, 1924, was secured.² It was kept in cold storage at New Haven, Conn., until the fall of the year (October), after which time express shipments in quantities as needed were made to us at the Georgia State Sanitarium, where the study was carried out. At the Sanitarium it was kept in the Sanitarium refrigerator room and issued daily in the required amounts. The approximate composition of the butter-supplemented diet is shown in Table 1.

The results of trials in pellagra prevention made with this butter were no more favorable than those made with butter locally produced. Recurrence of the disease was observed in some patients (weighing between 40 and 50 kilos) in spite of a daily consumption of approximately 147 grams (about 5 ounces) of the Vermont butter during periods ranging from two to seven months.

It is possible that these periods were in most instances somewhat longer, that is, that the recurrence of the eruption was somewhat later, than would have been the case had the butter been absolutely devoid of preventive action. In this respect the Vermont butter did not differ appreciably from that locally produced. Our study was not on a sufficient scale to permit of sound judgment on this point; the indications afforded by our preliminary trials were so decidedly unsatisfactory as not to justify their continuation. Recalling, however, that fresh buttermilk was found to have pellagra-preventive action (3) it would seem reasonable to expect that butter may carry at least a trace of the special pellagra-preventive essential (factor P-P). Considering the very large quantity of butter daily consumed by some of our patients, its definite failure to prevent in these a recurrence of the disease seems to us, however, to indicate that if the butter with which we worked (both the Vermont and the Georgia product) contained this factor it contained it in a practically negligible quantity.

Assuming, as seems reasonable in view of Underhill and Mendel's report, that the Vermont butter contained the black-tongue-preventive substance, then it would seem as if this substance and factor P-P were not identical or that it had undergone deterioration during the time before the butter was used. The latter possibility would seem all the more plausible, as Underhill and Mendel (7) report that butter of known origin and rich in the black-tongue-protective substance

¹ We were able to do this through the kind courtesy of Professor Underhill, who introduced us to the dealer who supplied him and who undertook to secure for us some of the same butter as that secured for Professors Underhill and Mendel.

gradually loses its effectiveness when kept in cold storage for a period of approximately one year or less. In considering this possibility it must be noted that our Vermont butter began to be served to our patients about the middle of October, 1924, or about three months after it was laid down, and the first recurrence of pellagra in patients taking it developed during the latter half of February, 1925,3 or not over about 71/2 months after the butter was made. If our disappointing experience with Vermont butter was due to loss of potency, then it would seem as if the P-P factor (in butter) undergoes deterioration surprisingly quickly 4. Since our Georgia butter was always relatively quite fresh, loss of potency incident to long storage can hardly enter into consideration in relation to the failure of this product, so that it would seem as if this must have been poor or lacking in the P-P factor from the outset. Considering our experience with butter as a whole and in the light of the fact that our study of fresh buttermilk produced near the Sanitarium showed this to contain the P-P factor, it would seem more probable that, like our Georgia butter, the Vermont product was poor or lacking in the P-P factor in the first place rather than that this had undergone deterioration and therefore that this factor and the black-tongue-preventive substance are not identi-· cal. So far as the above recorded experience with butter goes, these factors may, indeed, be distinct; but we should here perhaps state that our own experience with butter in experimental black tongue is in harmony with that in pellagra. In our own study, butter has failed us in the treatment and prevention of experimental black tongue just about as it has failed us in the treatment and prevention of pellagra. We have no explanation to suggest of the difference in our results with butter in black tongue from those reported by Underhill and Mendel, except the possibility that the black-tongue-preventive factor entered into their basal diet from some unsuspected source. It was just such occurrence in our own work that led to the discovery of the black-tongue-preventive potency of yeast.

#### Beef

The belief that fresh meat contains the pellagra-preventive factor or factors was, up to 1924, based on indirect evidence of the character cited in a preceding section of this report. In that year Goldberger and Tanner (3) added to that evidence by reporting very favorable results of treatment in eight well-marked though not very severe (mainly dermal) cases, with fresh beef as the only known therapeutic element in the diet. Though carried out with all possible care it was

In a patient who had come under observation and had begun taking the full allowance of this butter at about the middle of December, 1924.

A test of the vitamin A potency of this butter made during December, 1925, when it was about 17 months old, showed it to be quite efficient in curing xeropthalmia in a dose of 190 mgm, of the fat daily. A smaller dose was not tested.

realized that a therapeutic test on so restricted a scale could at best hardly be more than strongly suggestive; and while it was in harmony with and strengthened previous indications that fresh beef contains the pellagra-preventive factor or factors, it was, nevertheless, felt that a preventive feeding test would be needed to prove this conclusively. We have carried out such a test as a detail of the study of pellagra prevention that has been in progress at the Georgia State Sanitarium since 1914, the pertinent facts in relation to which are as follows:

In this test we used fresh beef drawn from the Sanitarium supply. The muscle meat was trimmed free of tendon, gristle, and visible fat, run through a meat chopper and a weighed amount, at the rate of seven ounces (200 grams) per patient per day, was stirred into a little water, seasoned with salt, and quickly brought to a boil. This daily ration was served and well taken in equal portions at breakfast and at the midday meal.

The determination of the daily allowance was largely arbitrary. Since our purpose was, if possible, to show that the disease could be prevented completely by a liberal though not excessive quantity of this food, we decided on the allowance (200 grams) that had served us very satisfactorily in the treatment of active cases (3), judging that this would be very likely to fulfill the, presumably, somewhat less exacting requirements of prevention. The approximate composition of the diet thus supplemented is shown in Tables 2 and 3.

The test was begun December 17, 1924, and carried on for one vear to December 31, 1925. During this period 26 pellagrins were taken under observation for preventive treatment with the beefsupplemented diet. Of this number, two were under observation for periods so brief as to have no significance, three were under observation for fully ten months, and the remaining 21 for fully one year. In none of these patients was there observed any recognizable evidence of a recurrence of pellagra, although in the light of repeated experience with this class of patients 5 it is safe to state that in the absence of the beef or other equivalent preventive food upward of 40 or 50 per cent of them would have suffered a return of the disease within a period of from three to seven or eight months. The complete absence of any indication of a recurrence in any of this group of pellagrins-twenty-one of whom, as stated, were under observation for a year-would therefore seem to be conclusive evidence of the preventive action of the fresh lean beef.

Although no recurrence of pellagra was observed in any of these patients it is of much interest to note that mild evidence of beriberi developed in five of them. The most striking and constant indication

^{*} Five of the 21 who were under observation a full year had had at least two previous attacks of the disease.

of beriberi was a slight and variable edema of the legs beginning over the shins, in the feet, or in both these parts, and was noted in the first case of this group of patients about June 11, 1925, or nearly six months after the patient had begun the beef diet. Following an increase in the whole maize meal and the cowpeas at the expense of the grits and rice, designed to increase the vitamin B (antineuritic) content of the diet (compare Table 3 with Table 2), the edema began to subside and before the close of the period of observation this and such other symptoms as may have been present (tachycardia, pairand tenderness of the legs) had cleared up completely. Evidently the beef diet, while adequate to prevent pellagra, was, during about the first six months of this study, slightly deficient in the beriberi vitamin.

#### Yeast

Some very favorable indications afforded by therepeutic and preventive tests of yeast in experimental black tongue of dogs (8) led to a study of the action of this preparation in pellagra. The results of that study were published a year ago (4); they indicated that dried yeast was an efficient pellagra-preventive. Toward the close of the study its favorable progress, particularly in view of the failure of casein, suggested the desirability of studying in a similar way the protein-free yeast fraction of Osborne and Wakeman (9), and this all the more as a commercial preparation of what we understood was this fraction was available on the market. This has been done with results as follows:

We have worked with the commercial preparation marketed under the name of "Yeast Vitamin-Harris Powder" of the Harris Laboratories, Tuckahoc, N. Y. This preparation appears to have come into use in a number of laboratories as a convenient supposedly protein-free concentrate of vitamin B and is commonly but, we find, erroneously assumed to be the Osborne and Wakeman yeast fraction II (9). It is possible that when first marketed it may have been this yeast fraction; we are advised, however, by Dr. I. F. Harris, director of the Harris Laboratories, and, with his permission, state that now this preparation is simply the dried watery (acidulated) extract of yeast prepared, Doctor Harris states, according to a somewhat modified Osborne and Wakeman (9) technique. This is claimed by Doctor Harris to be but negligibly, if at all, inferior in vitamin B potency to fraction II of Osborne and Wakeman (9).

The dose of this preparation decided on for administration to our patients was one-half of that used in the study of dried yeast, that is, 15 grams a day.⁶ In a few instances and for brief periods this was increased for therapeutic purposes to 30 grams. It was given dissolved in a little tap water in equal portions at each meal

It may well be that considerably less than this may suffice as a preventive.

during the first three months of the study. After this period it was all given at one time at the supper meal.

The basic diet given the patients receiving this vitamin powder supplement was essentially identical with that given the patients receiving beef, and is shown in Tables 4 and 5.

The study was begun May 26, 1924, with the treatment of a case in a recently admitted patient with a sharp attack (dermal and mental). Since then 22 patients in all have come under this treatment. Of these, 12 presented more or less pronounced active symptoms, including the dermatitis, and 3 the stomatitis, etc. of a pellagra sine pellagra. Seven came under observation for purely preventive treatment, being without active symptoms of the disease at the time.

Of these 22 patients, 1 has been under observation for 16 months, 1 for 14 months, 1 for 13 months, 5 for 12 months, 2 for 8 months, 2 for 7 months, and the others for various shorter periods.

Under the treatment, the active symptoms of the disease, in those presenting such, cleared up and, what is of much greater significance, in no case while taking the yeast extract has there been any recognizable evidence of a recurrence.

Recalling that our expectation, based on long experience with this class of patients, was that some 40 or 50 per cent of them would have developed evidence of a recurrence within some three to seven or eight months in the absence of the vitamin powder or equivalent preventive, the absence of any recurrence whatever in any of the patients, eight of whom were under observation for at least one year, is, in our judgment, conclusive evidence of the pellagra-preventive action of this yeast extract.

Here we wish to record that, as in the case of the beef study, a number of the patients taking the yeast extract developed evidence of beriberi. In these, six in all, as in the five mentioned in connection with the study of beef, the most striking and constant indication was a slight edema of the feet or feet and legs. This appeared first about May 24, 1925, in a patient of this group who began taking the yeast vitamin preparation on November 21, 1924, or about six months after beginning this treatment.

The changes in diet looking to an increase in the beriberi vitamin, mentioned in connection with the cases observed in the patients taking beef, were made between June 22 and June 26, 1925, and also affected the patients taking the "yeast vitamine" powder (compare

⁷ Having been led to believe from the literature that this proparation was exceptionally rich in vitamin B (antineuritic), this occurrence both surprised and perplexed us at first, but the development of the same syndrome in some of the patients in the beef study, together with the clearing up of the symptoms following upon the changes in diet designed to increase the antineuritic vitamin, convinces us that the 15 grams of "yeast vitamine" powder supplied little if any more antineuritic than did the 200 grams of fresh beef.

Table 5 with Table 4). By this date, however, three of the patients had already completed an observation period of a year, one of fully 11 months, one of 9½ months, and one of 7 months. Following the indicated modifications in the basic diet the evidence of beriberi gradually subsided and disappeared.

Thus the yeast extract-supplemented diet, like the beef-supplemented diet, was adequate to prevent pellagra, but, until certain modifications were made (which for certain patients were not in effect until after 7 to 12 months after beginning the "yeast vitamine" treatment), was slightly deficient in the beriberi vitamin.

#### Discussion

The results of previously published studies (3) (4) have been interpreted as indicating that in the prevention and, presumably, causation of pellagra there is concerned a previously unrecognized or unappreciated dietary essential (designated as factor P-P) which may be effective with but little, possibly without any, cooperation from the protein factor. The results of the studies presented above serve, we believe, to strengthen this interpretation and to increase the probability that factor P-P plays the sole essential rôle in the prevention of the disease.

It seems well established that the muscle of beef is relatively poor in all the commonly recognized dietary essentials except protein. So that, at first thought, it might plausibly be suggested that the preventive action of fresh beef is due to this constituent. When it is recalled, however, that, in a study carried out by Goldberger and Tanner (4), a daily supplement of 69 grams of casein (approximately 60 grams of protein) failed fully to prevent the disease, it is difficult to attribute the marked potency of the beef supplement to its 45 grams of protein, or, at least, to this protein alone. This difficulty is enhanced and the presence of another factor in the beef more strongly suggested when we recall the distinctly inferior pellagra-preventive potency (on the basis of protein content) of dried skim milk as compared with fresh buttermilk already referred to in the introductory section of this report.

The evidence of pellagra-preventive activity of the supplement of 15 grams of the yeast extract appears to us to point still more strongly to the existence of a special pellagra-preventive essential (factor P-P), and to the probability that this may be effective without any cooperation from the protein. This preparation is believed to be low in or lacking appreciable amounts of protein, and while it has a fairly high nitrogen content ⁸ it seems reasonably certain that only part of this is in a form conceivably capable of supplementing the protein

^{. &}lt;sup>8</sup> One sample analyzed in the Division of Chemistry of the Hygicule Laboratory was found to contain 7.59 and another 7.14 per cent nitrogen.

of the diet. Assuming, however, that all of its nitrogen is in the form of protein, the 15 grams of the dried extract would, on this assumption, contribute at most about 7.5 grams of protein. To attribute to this small addition the preventive potency of this preparation would imply that its nitrogen is in a form possessing supplementing properties notably superior to those of not less than about 36 grams of milk proteins (dried skim milk) and to those of 60 grams of casein protein. While this may conceivably be the case it seems so highly improbable as to warrant the conclusion that the preventive action of the yeast extract is due primarily to a special pellagra-preventive substance (factor P-P).

It would appear then, that, unlike butter, fresh lean beef and yeast contain a factor (factor P-P) which probably plays the primary rôle in the prevention and the causation of pellagra.

#### RELATION OF FACTOR P-P TO VITAMIN B

If the foregoing interpretation is, as we believe, sound, it follows that the "yeast vitamine" powder with which we have worked is not, as it has generally been considered, a concentrate of vitamin B alone, but contains also and, apparently, in considerable concentration, the pellagra-preventive factor P-P.⁹

It seems necessary at this juncture to anticipate the publication of the results of our experimental study of black tongue of dogs. This study, begun over four years ago, is still in progress, but we may now state that we have experimentally induced this canine disease by feeding dogs certain diets previously found associated with the occurrence of pellagra, including the Rankin prison farm experimental diet (10). Some modifications of certain of these diets have resulted in giving us our standard experimental black-tongue-producing diet. This is shown in Table 6. A somewhat simpler diet also blacktongue producing is shown in Table 7. In this study, white and vellow maize meal, casein, cod liver oil, and butter have been found very poor, or lacking, in the black-tongue preventive factor. has been found to possess inferior preventive activity. A test of fresh lean beef, although not yet completed, 10 is sufficiently far advanced to warrant the statement that this possesses considerable black-tongue-preventive potency (see Table 8). Dried yeast and the commercial yeast extract referred to above have been found very efficient preventives of black tongue. Seidell's activated solid (11) in a daily dose at the rate of 2 grams per kilo of body weight as a supplement to basic diet 123, shown in Table 6, has black-tongue-preventive action. Thus the black-tongue-preventive factor is present

^{&#}x27;So far as the above recorded experience with this preparation goes, it would suggest that this preparation may be richer in factor P-P than in vitamin B.

¹⁰ It has three more months to run to complete a period of one year, our usual period in such cases,

in lean beef muscle, in yeast, and in the commercial dried watery extract of yeast, and it is adsorbed from a watery extract of yeast by English fullers' earth. Our data appear to indicate that this factor is a dietary essential, heretofore either not recognized or not appreciated as such, necessary for the nutrition of the dog.

From the foregoing it appears that the substances that have been found to possess black-tongue-preventive potency have, when tried in pellagra, been found efficient preventives of the human disease; those that had failed in pellagra or were of low pellagra-preventive potency (milk) when tried in black tongue have failed or were feeble as preventives of the canine syndrome. In view of this striking similarity, if not identity, of behavior we feel justified in adopting, and are planning our studies of pellagra on, the working hypothesis that black tongue of dogs is the analogue of pellagra in man. Accordingly, it may tentatively be assumed that factor P-P is the dietary essential primarily concerned in the prevention and causation of both black tongue and pellagra. The assumption of this identity seems all the more reasonable as otherwise it would (and it still may) be necessary to conclude that the "yeast vitamine" powder contains in addition to the pellagra-preventive essential, also a special black-tongue-preventive factor. Thus assuming that we are dealing with one factor (P-P) let us consider its relation to "water soluble B."

Although this water-soluble vitamin has quite generally been considered as representing a single dietary factor having both antineuritic and growth-promoting properties, a number of investigators (12) have dissented from this view and have advanced reasons for believing that it includes at least two distinct dietary essentials—one the antineuritic or beriberi vitamin (vitamin B sensu stricto according to Funk (13)) and the other a "growth-promoting" factor which some workers (14) believe identical with Wildiers' bios. Thus with the possibility before us that vitamin B may include at least two distinct dietary essentials, it becomes necessary to consider the relation of factor P-P to these two at least.

In previous publications (3) (4) evidence was adduced that was interpreted as excluding vitamin B from consideration as essential in relation to the prevention and causation of pellagra. This had reference to vitamin B in the generally accepted sense of the antineuritic or antiberiberi vitamin. That vitamin B in this sense, that is, as the antiberiberi essential, and factor P-P are distinct and may perform their physiological functions independently, is also, and we believe quite conclusively, shown by the fact of the rare association of the two diseases beriberi and pellagra. An interesting example of this independence of action is the observation, mentioned in a preceding section, of the occurrence of beriberi in some of the patients.

taking the beef and in others taking the yeast extract-supplemented diets. The fact that very exceptionally the two diseases may occur together in the same patient (15) emphasizes the significance of the rarity of such association. In other words, while the diet may at the same time be deficient in both the beriberi- and the pellagra-preventive essentials, ordinarily, in endemic localities of these diseases, the diet concerned is deficient in one and not (or but inappreciably) in the other factor.

With respect to the relation of factor P-P to the second, the socalled growth-promoting essential, possibly included in the designation "water-soluble B," the studies presented in the foregoing afford no basis for judgment. It may be stated in this connection, however (again anticipating the publication of certain of the results of the experimental study of black tongue), that the discovery of the black tongue- (and pellagra-) preventive potency of yeast has led to a study designed to elucidate the characters of factor P-P and thus. perhaps, aid in the determination of its identity. This study has revealed that factor P-P is adsorbed from an acidulated watery extract 11 of yeast by English fuller's earth (Seidell's activated solid); that yeast heated to charring no longer possesses appreciable black tongue-preventive activity. After heating in the steam autoclave at 15 pounds for two and one-half hours, the yeast retains, our tests in dogs show, much, if not all, of its activity in the prevention of black tongue; but when young rats are fed a diet in which the sole source of "water-soluble B" is derived from as much as 30 or 40 per cent of this autoclaved yeast, and which is otherwise complete for growth, their growth is quickly arrested, their weight then declines, and they die with or without symptoms of polyneuritis (Chart 1, period 4, and Chart 2). The unheated yeast, 12 it may be noted, when fed young rats in diets at an 8 or 10 per cent level, provides sufficient "watersoluble B" for good, though not for optimal, growth. Thus, according to current ideas, the heating for two and one-half hours inactivates the water-soluble vitamin (as it exists in dried yeast; it does not appreciably affect it as it exists in Seidell's activated solid), but obviously does not notably affect the P-P factor. Evidently, too, factor P-P is not of itself growth promoting. Furthermore, if the so-called growth-promoting water-soluble vitamin of the yeast is distinct from the antineuritic and from the P-P factor, then either the heating has inactivated it or, like factor P-P, it is not a special "growth" factor.

But that factor P-P or some associated (and, in yeast, relatively thermostable) factor, distinct from the antineuritic, is essential for growth (of the rat at least) would appear from the following: 1.—

[&]quot; We have gained the impression that factor P-P is relatively much more soluble in addulated water than in 35 per cent (by volume) alcohol, whereas the antineuritic is relatively readily soluble in both.

11 Fleischmann's wort-grown, low temperature dried yeast was used.

When young rats are fed a diet complete for growth except as to "water soluble B" and containing as the sole source of this vitamin as much as 30 or 40 per cent of yeast 12 previously heated in the autoclave at 15 pounds for two and one-half hours (and from tests

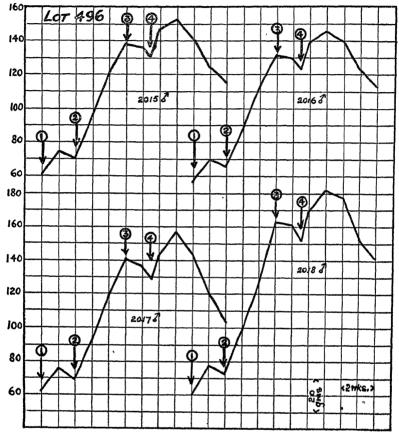


CHART 1.—Weight curves of four young albino rats during four dietary periods. During period 1 their diet (No. 218) included as the sole source of "water soluble B" 40 per cent of an alcoholic extract of corn. After an initial gain in weight they began to lose, whereupon there was added to their diet 9 per cent of yeast previously autoclaved at 15 pounds for 2½ hours. This was at once followed (period 2) with a resumption of growth which was well maintained during three weeks, at the end of which a change in diet was again made. This change consisted of the withdrawal of corn extract and autoclaved yeast thus giving them the basic diet (No. 206) without any known source of "water soluble B." Growth was at once arrested, followed by a downward trend in weight (period 3). Now enother change in diet was made. The basic diet (No. 206) was replaced by one which included 40 per cent of autoclaved yeast as the sole source of "water soluble B" (diet No. 239). This change was followed by a resumption of growth, which lasted but a short time, and was followed by a progressive loss in weight. Thus neither 40 per cent of the corn extract nor 40 per cent of the autoclaved yeast when the sole source of "water soluble B" permitted the rats to grow, but when only 9 per cent of the autoclaved yeast was added to the diet containing the corn extract growth took place and was maintained.

in dogs shown to contain P-P), they quickly decline in weight after a slight initial rise and die with or without signs of polyneuritis (Chart 1, period 4, and Chart 2) (antineuritic deficient). 2.—When young rats are fed a diet complete for growth except as to the "water

soluble B," but containing as the sole source of this vitamin as much as 40 per cent of a preparation of an alcohol extract ¹³ of corn meal that can alleviate or cure polyneuritis in the rat, the weight of such animals, after slight initial growth, is arrested and then declines (Chart 1, period 1, and Chart 3). 3.—If, however, young rats are fed a diet, as before, complete for growth except as to the "water-soluble B," but containing as sources of this vitamin as little as 8 or 10 per cent of the autoclaved yeast and as little as 5 per cent of our extract of maize meal, the animals grow (Chart 4. See also Chart 1, period 2).

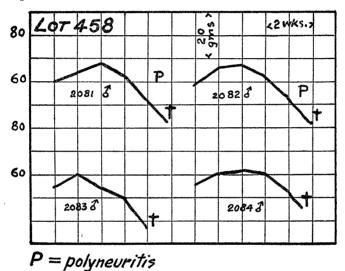


CHART 2.—Weight curves of four young albino rats whose diet (No. 227) included as the sole source of "water soluble B" 27 per cent of autoclaved yeast. Slight initial growth was followed by arrest and continued loss of weight terminating in death. Two of the animals developed signs of polyneuritis.

Again, when young rats are fed a diet complete for growth except as to the "water soluble B" and containing 20 per cent of dried fresh lean beef (which, judging by experience with pellagra and black tongue, contains factor P-P) as the sole source of this vitamin, such animals, as is well known, after slight initial growth, decline in weight and die with or without polyneuritis (Chart 5, period 1) (antineuritic deficiant). If, however, when signs of polyneuritis begin to appear, there be included in such diet as little as 5 per cent of our alcoholic corn extract (40 per cent of which as the sole source of water-soluble vitamin in a diet does not enable the rat to grow), the animals, if not

¹³ This extract is prepared by intermittent percolation of whole white corn meal at room temperature with alcohol of 85 per cent by volume strength, until about 6.5 liters are obtained from 5 kg. corn meal. The percolate is put into a distilling flask and concentrated to about one-fifth to one-fourth its volume. This is then poured into a pan on a water bath and corn starch stirred into it at the rate of 125 gm. of starch to 5 kg. of corn meal used. The remaining alcoholic liquid is driven off by fanning. The damp residue is then transferred to glass dishes and further dried in a current of warm air, after which it is ground into a powder. For each 18 to 18.5 gm. of corn meal 1 gm, of this product is thus obtained.

too far gone, recover from polyneuritis and resume growth (Chart 5, period 2). Evidently our alcoholic extract of maize contains an essential that cures polyneuritis in the rat, and while not growth promoting 11 of itself, permits or promotes growth when combined in a diet otherwise complete for growth except for "water soluble B" with a suitable proportion of a P-P-containing substance such as autoclaved yeast or beef (which itself, within certain limits, neither prevents polyneuritis nor permits growth).

Thus, autoclaved yeast and beef muscle contain a factor distinct from the polyneuritis-preventing vitamin which in combination with the antineuritic is essential for the growth of the rat. From the facts presented, it seems probable that this is the same as factor P-P, and some of the work in the very confusing literature relating to the identity of the "growth-promoting" complex of "water soluble B" with bios appears to us to be in harmony with this interpretation. Further investigation will, however, be required to determine this.

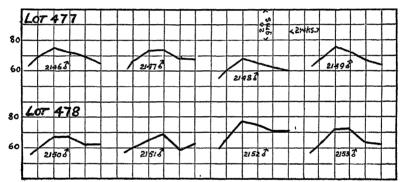


CHART 3.—Weight curves of two lots of young albino rats. The dict of both was free of "water soluble B" except as supplied by 6 per cent (lot 477, diet 238 B) and 12 per cent (lot 478, diet 238 C), respectively, of our corn extract. Growth was quickly arrested.

In any event investigators using the rat-growth test must hereafter recognize and take due account of at least two essentials (B sensu stricto and P-P) where heretofore only one was considered. This is, perhaps, of special importance to those heretofore occupied in the chemical isolation of the beriberi vitamin. It may well be suspected that the highly "active" concentrates, supposedly of vitamin B (sensu stricto) that some of these workers have succeeded in preparing, in proportion as they enable the rat to grow in the absence of any other source of the "water soluble B" in the diet are concentrates of at least two factors. The rat-growth test may continue to be used as a test of the purity of a concentrate, but must be interpreted in a sense opposite to that heretofore current. The pure concentrate will be seemingly inert. The complete test of such a

¹⁴ Relatively, not absolutely so.

concentrate (or a food substance) will necessitate combining it alternately with an adequate proportion of a proved preparation of the antineuritic and of the P-P factor, respectively, and, perhaps, of both, and this or some equivalent test will have to be made before an apparently inactive preparation (or food) can be adjudged as really inert. It is, at least, possible that in the past, workers in discarding "inactive" fractions have unwittingly been throwing away the very thing they were laboriously seeking. This may perhaps explain, at least in part, the somewhat unaccountable losses of vitamin in the process of fractionation of "active" preparations.

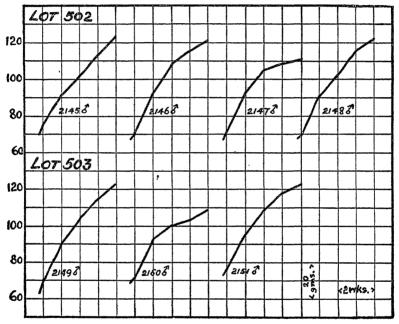


CHART 4.—Weight curves of two lots of young albino rats. The duet of both was free of "water soluble B" except as supplied by 5 per cent of our corn extract combined with, in the case of lot 502, 8 per cent (duet 243 E) and, in the case of lot 503, 10 per cent (duet 243 F) of autoclaved yeast Although neither preparation alone when the sole source of "water soluble B" even to the extent of 40 per cent of the diet permits growth when, as here, much smaller proportions of each are combined growth takes place, thus proving conclusively that this is not simply an additive phenomenon. The growth of these animals is at a somewhat reduced late; for optimal growth the percentages of both corn extract and autoclaved yeast would have to be increased.

In closing it may be permitted to suggest that investigators interested in the isolation of vitamin B may find maize a better source of this factor than yeast, since maize is much poorer in the associated thermostable factor or factors than is yeast.

#### Summary and Conclusions

1. Previous trials of butter in a daily quantity of about 140 grams (5 ounces) using a Georgia product had practically invariably failed

to prevent recurrence of pellagra. Further trials with a Vermont product proved no more favorable than those with the Georgia butter.

Butter would seem to be poor, or lacking, in the pellagra-preventive factor or factors.

2. The pellagra-preventive action of a daily allowance of 200 grams (7 ounces) of fresh meat in the form of lean beef was tested and found capable of completely preventing the disease, thus proving that fresh beef contains the pellagra-preventive factor or factors.

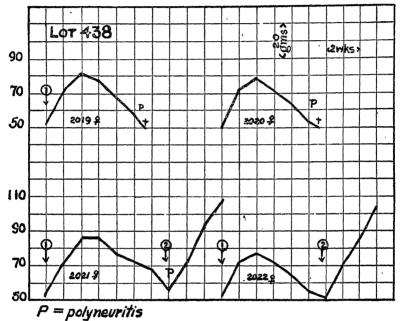


CHART 5.—Growth curves of young albino rats whose diet during period 1 included as the sole source of "water soluble B" 20 per cent of dried fresh beef. After some initial growth there was arrest followed by loss of weight with the development of signs of polyneuritis in three of the animals. After two of these died the diet was modified by adding 5 per cent of our corn extract (diet 219 A). This was followed by disappearance of the signs of polyneuritis in the survivor showing these, with prompt resumption of growth in both survivors (period 2). The beef contained sufficient P-P but was deficient in antineuritic. The small addition of corn extract supplied enough of this to supplement P-P sufficiently to permit growth to take place.

The beef-supplemented diet, though adequate for pellagra prevention, was, during about half of the period of study, slightly deficient in the beriberi vitamin.

3. The pellagra-preventive action of a dried yeast extract was tested in a daily quantity of 15 grams (half an ounce) and found efficient in preventing the disease.

The yeast-extract-supplemented diet was adequate to prevent pellagra, but, during a part of the period of observation, was slightly deficient in the beriberi vitamin.

4. The results of the studies presented are believed to strengthen the interpretation of those previously reported, namely, that in the

prevention and presumably causation of pellegra there is concerned a heretofore unrecognized or not fully appreciated dietary essential (factor P-P), and to indicate the probability that this may play the sole essential rôle in relation to the disease.

- 5. A statement of a preliminary character is made of some of the results of an experimental study of black tongue, and it is briefly pointed out that the substances that have been found to possess black-tongue-preventive potency have, when tried in pellagra, been found efficient preventives of the human disease and that those that had failed in pellagra, or were of low pellagra-preventive potency, when tried in black tongue have failed, or were feeble, as preventives of the canine disease. The working hypothesis has therefore been adopted that black tongue of dogs is the analogue of pellagra in man, and thus that factor P-P is concerned in the prevention and causation of both black tongue and pellagra.
- 6. The relation of the factor P-P to "water soluble B" is considered and evidence is cited showing—First, that the antineuritic factor (vitamin B sensu stricto) is distinct from the factor P-P and does not in itself suffice for the growth of the rat; second, that if the term "water soluble B" includes, as some investigators have suggested, in addition to the antineuritic factor a so-called growth-promoting essential (possibly identical with Wildiers' bios), this, like the antineuritic factor, is either inactivated by autoclaving, or does not suffice by itself for the growth of the rat; third, that factor P-P or some associated, and, in yeast, like P-P, thermostable factor (possibly the so-called growth-promoting factor) distinct from the antineuritic vitamin, though not sufficing in itself for the growth of the rat, is, in combination with the antineuritic, essential for growth in rats.
- 7. Whether factor P-P is, as at present seems most probable, identical with the so-called growth-promoting essential heretofore included (with the antineuritic) in the term "water-soluble vitamin B," or whether these are distinct, further investigation must determine.

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Table 1.—Approximate composition of butter-supplemented diet offered daily to certain pellagrins during the fall, winter, and spring of 1924-25

### [Total calories: 2,301]

Diet		Nutrients		
Articles of diet	Quan- tity	Protein	Fat	Carbo- hydrate
Basic: Corn meal 1. Wheat flour Rice Cowpens (Vigna sincusts) 2. Lard Tomato juice 3 Supplemental: Creamery butter (Vermont) 4 Calcium carbonate 5 Dibute hydrochloric acid (U. S. P.) (90 drops) 5 Snup iodid iron (U. S. P.) (2 drops) 5 Total nutrients Nutrients per 1,000 calories	130 147	Grams 15.5 9.7 1.1 6.0 1.5	Grams 8.7 9 0 4 4.0 125.0 139.0 60.4	Grams 136, 9 63, 8 11, 1 17, 0 228, 8 99, 5

¹ Whole maize meal, sifted in the kitchen and made into corn bread and mush.

From cannot compare a composition of the district of the district of the institution.

From cannot comatoes, pressed through a cloth.

A portion served at each meal; thoroughly stirred into the hot mush or mush, rice, and peas.

Given to improve the mineral composition of the dist.

Given with a view of correcting a possible gastric anacidity so common in pellagrins,

Table 2.—Approximate composition of fresh beef-supplemented diet offered daily to each of a group of colored female pellagrins during the period December 17, 1924-June 22, 1925

[Total calories: 2.080]

Diet		Nutrients		
Articles of diet	Quan- tity	Protein	Fat	Carbo- hydrate
Basic:  Cornmeal ¹ Corn grits Wheat flour Rice Cowpeas (Vigna sinensis) ² Sirup. Lard Tomato juice ³ Supplemental: Fresh beef ⁴ Cod liver oil ⁵ Calcium carbonate ⁶ Dilute hydrochloric acid (U S. P.) (90 drops) ² Sirup odid of iron (U. S. P., (2 drops) ⁶	70 28 14 90 42 130 200 15	Grams 11.8 4.4 8.0 2.2 3.0	Grams 6.3 .9 .7 .1 .2 42.0	Grams 103.6 36.2 52.5 22.1 8.5 63.9
Total nutrients Nutrients per 1,000 calories		74. 2 35. 7	71.0 34.1	286. 8 137. 9

¹ Whole maize meal sifted in the kitchen and made into corn bread and mush,

Table 3.—Approximate composition of fresh beef-supplemented diet offered daily to each of a group of colored female pellagrins during the period June 26, 1935—December 31, 1925. (The period June 22 to June 26 was a period of change from the diet shown in Table 2 to that shown here)

[Total calories: 2,097]

Diet		Nutrients		
Articles of diet	Quan- tity	Protein	Fat	Carbo- hydrate
Basic:  Corn meal ¹ .  Wheat flour.  Rice Cowpeas (Vigna sinensis) ² .  Sirup. Lard. Tomato julee ³ .  Supplemental: Fresh beef ⁴ .  Cod liver oil ⁵ .  Calcium carbonate ⁴ .  Dilute hydrochloric acid (U. S. P.) (90 drops) ⁷ .	90 42 130 200 15 3	Grams 16.0 8.0 1.1 6.0	Grams 8.7 .7 .0 .4 42.0	Grams 140. 6 52. 5 11. 1 17. 0 63. 9
Sirup iodid of iron (U. S. P.) (2 drops) 6  Total nutrients Nutrients per 1,000 calories		75. 0 36. 1	72.6 34.6	285. 1 135. 6

Served in place of the variable dry legume ration of the institution.

From canned tomatoes, pressed through a cloth.

Lean muscle free of visible fat.

Given in place of the variable butter or margarine ration of the institution.

Given to improve the mineral composition of the diet.
 Given with a view of correcting a possible gastric anacidity so common in pellagrins.

¹ Whole maize meal sifted in the kitchen and made into corn bread and mush.
2 Served in place of the variable dry legume ration of the institution.
3 From canned tomatees, pressed through a cloth.
4 Lean muscle free of visible fut.
5 Given in place of the variable butter or margarine ration of the institution.
6 Given to improve the mineral composition of the duct.
7 Given with a view of correcting a possible gastric anacidity so common in pellagruns.

Table 4.—Approximate composition of "yeast vitamine"-supplemented diet offered daily to each of a group of colored female pellagrins during the period up to Junc 22, 1925 [Total calories: 2,104]

Nutrients Diet Quan-tity Carbo-Protein Fat. Articles of diet hydrato Grams 103. 6 Grams Grams Basic: Grams Corn meal ¹
Corn grits.
Wheat flour 6. 3 140 11.8 4.4 8.0 2.2 3.0 36, 2 52. 5 22. 1 28 Rice_______Cowpeas (Vigna sinensis) 2______ 8. 5 14 90 63. 9 Sirup....Lard.... 42 42.0 Vegetable cooking oil 28 28.0 Tomato juice 3
Supplemental:
Yeast vitamine (Harris) powder 4 130 15 Cod liver oil ⁵
Calcium carbonate ⁶ 15 0 15 ....... Calcium carbonate bullet by the carbonate bullet by drochloric acid (U. S. P.) (90 drops) surply iodid of iron (U. S. P.) (2 drops) surply iodid of iron (U. S. P.)

Total nutrients
Nutrients per 1,000 calories

Table 5.—Approximate composition of "yeast vitamine"-supplemented diet offered daily to each of a group of colored female pellagrins during the period June 26, 1925—December 31, 1925. (The period June 22 to June 26 was a period of change from the diet shown in Table 4 to that shown here)

29. 4 14. 0

44. 4

286.8

136.6

[Total calories: 2,118]

Diet		Nutrients		
Articles of diet	Quan- tity	Protein	Fat	C'arbo- hy drate
Basic:  Cornmeal ¹.  Wheat flour.  Rice. Cowpeas (Viyna sinensis) ².  Sirup. Lard.  Vegetable cooking oil.  Tomato juice ³.  Supplemental:  Yeast vitamine (Harris) powder ⁴. Cod-liver oil ².  Cidelium carbonate ⁵.  Dilute hydrochlorie-acid (U. S. P.) (90 drops) ⁵.  Sirup iodid of iron (U. S. P.) (2 drops) ⁴.  Total nutrients.  Nutrients per 1,000 calories.	28 90 42 28 130 15 15 3	Grams 16. 0 8. 0 1. 1 6. 0	Granis 8.7 .7 .0 42.0 28.0  15.0	Grams 140. 6 52. 5 11. 1 17. 0 63. 9

Whole maize meal sifted in the kitchen and made into corn bread and mush.
 Served in place of the variable dry legume ration of the institution.
 From canned tomatoes pressed through a cloth.

¹ Whole maize meal sifted in the kitchen and made into corn bread and mush.
2 Served in place of the variable dry legume ration of the institution.
3 From canned tomatoes, pressed through a cloth.
4 Commercial preparation.
5 Given in place of the variable butter or margarine ration of the institution.
6 Given to improve the mineral composition of the diet.
7 Given with a view of correcting a possible gastric anacidity so common in pellagrins.

A commercial preparation.

4 decommercial preparation.

5 Given to improve the mineral composition of the diet.

6 Given with a view of correcting a possible gastric anacidity so common in pellagrins.

7 Given in place of the variable butter or margarine ration of the institution.

Table 6.—Composition of experimental black tongue producing diet No. 123.1
On this diet recognizable signs of black tongue begin to appear in from one to three or four months. When adequately supplemented with "yeart vitamine" powder, Seidell's activated solid, autoclaved yeast, etc., black tongue does not develop. See also Table 8

#### [Total calories: 2,400]

Diet		Nutrients			
Articles of diet	Quan- tity	Protein	Fat	Carbo- hydrate	
Cornmeal ² Cowpens (Vigna sinensis) ³ Casein ⁴ (purified) Sucroso Cottonseed oil Cod-liver oil Sodium chlorid ⁵ Calcium carbonate ⁶	32 30	Grams 33. 6 10. 7 52. 0	Grams 18 8 . 7 	Grams 206 0 30. 4 32. 0	
Total nutrients. Nutrients per 1,000 calories.		96. 3 40. 3	64. 5 26. 9	358. 4 149. 3	

¹ The cornmeal, cowpeas, and salt are stirred into water and cooked one and one-half hours. Then the other ingredients are well stirred in, the total weight being brought to 2,400 grains with water (so that one gram equals one calorie) and this finished mixture is served to the dog ad libitum.

Table 7.—Composition of diet No. 149,1 a slight modification of rat ration, "Chart 5, Lot 568," of McCollum, Simmonds, and Pitz (J. Biol. Chem., 1916, vol. 28, p. 160), and on this authority considered complete for normal growth of the rat to the usual adult size. In the dog it permits of the development of black tongue; for this animal the diet is too low in factor P-P

[Total calories: 2,354]

Diet		Nutrients		
Articles of diet	Quan- tity	Protein	Fat	Carbo- hydrate
Entire corn meul Casein 3 (purified) Salts 4	Grams 450 90 22	Grams 2 45. 5 78. 8	Grams 2 22. 5	Grams
Cod liver oil Butterfat	8 30		8. 0 30. 0	
Total nutrients Nutrients per 1,000 calories.		124.3 52.9	60. 5 25. 7	328. 0 139 6

¹ The commeal is stirred into water and boiled one and one-half hours, after which the other ingredients are stirred in and the weight of the whole is brought up to 2,354 grams with water (so that one gram equals one calorie) and the mixture then fed ad libitum.

4 McCollum's salt mixture 185.

² This is whole maize meal sifted as for human consumption.
3 The variety known as the California black-eye pea.
4 Leached for a week in daily changes of acidulated water, after McCollum.
5 The sait and calcium carbonate may be replaced by 22 grams of the well-known Osborne and Mendel salt mixture.

² The factors used are those given by Henry & Morrison ("Feeds and Feeding") for dent corn. ³ Leached for a week in daily changes of acidulated water, after McCollum.

Table 8.—Composition of diet No. 196.1 Essentially the same as diet No. 123 (Table 6), except that the casein of the latter is replaced by lean beef. Unlike diet No. 123, this has well-marked black-tongue-preventive action, thus indicating that the lean of fresh beef contains factor P-P

[Total calories: 2,400]

Diet		Nutrients		
Articles of diet	Quan- tity	Protein	Fat	Carbo- hydrate
Cornmeal ² Cowpeas (Vigna sinensis) ³ Beef ³ (lean round) Cane sugar Cottonseed oil Cod liver oil Sodium chlorid Calcium carbonate	Grams 400 50 233 32 23 15 10 3	Grams 33.6 10.7 52.3	Grams 18.8 .7 6.8 23.0 15.0	Grams 296. 0 30. 4 32. 0
Total nutrients		96 6 40 2	64. 3 26. 7	358. 4 149. 3

¹ The cornmeal, cowpeas, and salt are stirred into water and cooked one and one-half hours. Then the other ingredients are well stirred in, the total weight being brought to 2,400 grams with water (so that one gram equals one calorie) and this finished mixture is fed ad libitum.

² This is whole maize meal sifted as for human consumption.

Table 9.—Composition of rat diets used in the experiments illustrated in charts 1 to 5

Diet No.	Purified casein ¹	Salt mixture ²	A cotton- seed fat 3	Cod liver oil	Corn starch	Alcoholic extract of corn meal	Auto- claved yeast ¹	Dried beet ⁵
206. 218. 219 A 227. 228. 238 B 238 C 239. 243 E 243 F	20 20 20 20 20 20 20 20 20 20	444444444444444444444444444444444444444	<b>3333333333333333333333333333333333333</b>	222222222222222222222222222222222222222	71 31 46 44 22 65 59 31 58 56	40 5 40 6 12	27 9 40 8	20

After leaching for a week in daily changes of acidulated water (after McCollum), extracted, by intermittent percolation, with ether, followed by 95 per cent alcohol.

² Osborne and Mendel J Biol. Chem., 1919 (37): 572.

In steam autoclave at 15 pounds pressure for two and one-half hours.

#### ACKNOWLEDGMENTS

We must again express our warmest appreciation of the cooperation extended to us by the Board of Trustees, the Superintendent, the Clinical Director, the Staff, and other officers of the Georgia State Sanitarium.

The variety known as the California black-eye pea.
Fresh round steak, freed of gristle, tendon and visible fat, run through a meat chopper.

⁵ Fresh sound steak, trimmed free of visible fat, ground in meat chopper and dried in a current of warm air, then ground to a powder.

# QUANTITATIVE STUDIES OF BACTERIAL POLLUTION AND NATURAL PURIFICATION IN THE OHIO AND THE ILLINOIS RIVERS ¹

By J. K. Hoskins, Sanitary Engineer, United States Public Health Service

The United States Public Health Service has been engaged for some years in studies of various phenomena concerned with the pollution and natural purification of streams. One general purpose of these studies has been to evaluate the intensity of bacterial pollution to be expected from known populations discharging sewage into streams of known discharge and velocity of flow. With this end in view detailed bacteriological data have been collected from two streams of quite different types, the Ohio and Illinois Rivers. Published observations on the Ohio River ² covered a period of three years, and those of the Illinois River were continued for a complete year, so that in each instance information was obtained throughout an entire seasonal cycle.

From a consideration of the data of these studies some general tendencies in bacterial changes are indicated, which may be of assistance to sanitary engineers in forming an estimate of the effect, both immediate and prolonged, of adding sewage, from a definite population, to a watercourse of determined hydrometric characteristics.

The degree of bacterial pollution contributed by cities, about which information is most generally desired, may be separated into two principal cases. The first is concerned with the intensity of bacteria that will result in the stream in the zone of highest pollution below the point at which the sewage is discharged. The second and sometimes more important consideration is the proportion of such contributed bacteria that will remain in the stream at a known distance, or time of flow, below the point at which they were added.

#### DISCUSSION

Due to fluctuations in discharge and inflow of all streams, the bacterial concentration resulting from a constant rate of contribution may vary widely. It is essential therefore, for a comparative study of results that not only the concentration of bacteria be considered, but that the actual quantities of organisms be taken into account as well. The quantities of bacteria present in, or added to, a watercourse can be expressed most conveniently in terms of a unit in which is combined the elements of volume, time, and bacterial concentration. Such a unit, called the "quantity unit," has been used for this purpose. The quantity unit may be defined to be the

¹ The last of four papers comprising a symposium on stream pollution which was presented at the meeting of the sanitary engineering of the American Society of Civil Engineers at Cincinnati, Ohio, April 23, 1925, and published in the Proceedings of the Society, Vol. LI, No. 9, November, 1925. The other papers were published in Public Health Reports for January 15, February 5, and February 12, 1926, respectivly.

² A study of the Pollution and Natural Purification of the Ohio River, Part 11: Report on Surveys and Laboratory Studies. Public Health Bulletin No. 143. U. S. Public Health Service Washington D. C. 1924

product of the discharge of 1 cubic foot per second and a concentration of 1,000 bacteria per cubic centimeter. Hence the number of quantity units of bacteria in a stream equals

Discharge, in second-feet × bacteria per cubic centimeter 1,000

Obviously, this unit is convertible into bacterial numbers per unit of time, such as the day. Thus, an average of 1,000 bacteria per cubic centimeter in a flow of 1 second-foot for 1 day, or 86,400 seconds, is equivalent to 28,317 (=number of cubic centimeters in 1 cubic-foot)  $\times 1,000 \times 86,400$ , or 2,446,589,000,000 bacteria per day in one quantity unit.

#### IMMEDIATE POLLUTION

In observations of the effect of pollution by sewered communities, it has been noted consistently that the zone of greatest bacterial density in the receiving stream does not occur immediately below the sewer outfalls, but at a point 10 to 30 hours downstream from the place where such pollution is added. Moreover, the location of this maximum zone seems to be influenced by seasonal temperatures, being farthest downstream during the winter months. Whether an actual multiplication of organisms in the stream takes place until this maximum is reached, or whether the observed increase in bacterial numbers is due to the physical separation of organic matter has not been definitely determined, although the evidence seems to point to the former assumption as the most logical explanation.

Observations extending over the entire seasonal cycle have been made of the numbers of bacteria per capita added to the stream by the sewage pollution from Cincinnati, Ohio, Louisville, Ky., Chicago, and Peoria, Ill. In each instance the numbers appear to vary with seasonal temperature conditions, being considerably greater in summer than in winter. These seasonal fluctuations are shown for each of the four cities, both in terms of quantity units per capita and in billions of bacteria per capita per day, in Table 5, wherein the values for summer, for winter, and the averages for the entire year are presented.

By combining the yearly per capita contributions of gelatin, agar, and B. coli counts, respectively, of all the four cities, a general average is obtained which may be considered to be roughly representative of the annual average quantity units of the respective types of bacteria contributed to these streams per capita of the sewered population.

The variation from month to month in the numbers of bacteria contributed is, in general, reasonably consistent, increasing quite rapidly to a maximum in June or July and declining again gradually until October and then more rapidly to the lower numbers found throughout the winter season. These changes in the contribution of

B. coli from each of the four cities are shown in more detail in Table 6, in which the figures represent the ratio of the count each month to the annual average, the latter being taken as equivalent to 100. The averages of the ratios for these four cities for corresponding months represent what might be considered a general measure of the degree of change from month to month in numbers of B. coli contributed by urban sewered population. Similar averages have been derived for the monthly variations in numbers of bacteria growing on gelatin at 20° C. in 48 hours and an agar at 37° C. in 24 hours, all of which are assembled in Table 7 and plotted in Figure 11. For purposes of comparison the average monthly river water temperatures are also given in Tables 6 and 7.

Table 5.—Scasonal changes in numbers of bacteria added to streams by sewered populations of Cincinnati, Ohio, Louisville, Ky., and Chicago and Peoria, Ill.

Quantity units of bacteri		Billions of bacteria per capita per day							
				G	rowing on-	B. coli  428 42 230 231 141			
Added by	Gelatin	Agar	B. colı	Gelatin at 20° C. for 48 hours	Agar at 37° C. for 24 hours	B. coli			
Chicago: Summer. Winter. Year. Peoria: Summer. Winter. Year. Cincinnati: Summer. Winter. Year. Louisville: Summer. Winter. Year. Averages: Summer.	10. 148 1. 740 6. 252 6. 447 . 869 4. 518 5. 764 1. 058 4. 811 5. 544 3. 008 4. 431 6. 976	10 485 . 346 4. 566 10. 480 3. 125 7. 894 7. 486 . 410 5. 009 6. 475 . 3707 3. 251 8. 731	0. 175 . 017 . 094 . 0912 . 0577 . 0763 . 238 . 0486 . 1463 . 1189 . 0789 . 0907	24 828 4 257 15 296 15 773 2 126 11 054 14 102 2 588 11 770 13 564 7 359 10 841 17 067	25 652 847 11 171 25 640 7 646 10 313 18 314 1 002 12 256 15 842 907 7 962 21 362	42 230 231 141 187 583 119 358 291 193 222			
Winter Year	1. 669 5. 003	1. 063 5. 181	.0507	4 083 12 240	2 600 12 676	124 249			

¹ One quantity unit=2,446,589,000,000,000 bacteria per day.

Table 6.—Monthly variation in water temperature and in numbers of B. coli added to streams by sewered populations of cities

[Average for year = 100]											
		Cincinuati, Ohio		Louisville, Ky.		Chicago, III.		Peoria, Ill.		Average	
Month	Water temper- ature	Bac- terla, percent- age of nunual average	Water temper- ature	Bac- teria, percent- age of annual average	ature	Bac- teria, percent- age of annual average	acure	Bac- teria, percent- age of annual average	ature	Bacteria, percentage of annual average	
January February March April May June July August September October November December	23 2 26. 2 25. 5 22. 4	29 39 32 53 93 116 185 151 111 252 84 56	°C. 2.6 3.3 4.3 11.3 18.5 23.2 26.8 26.3 23.4 17.5 11.0 5.0	60 109 91 69 123 79 174 122 174 108 26 66	° C. 0.3 1.0 3.7 8.6 15.0 20.9 22.4 23.8 20.1 13.8 7.4 3.2	12 16 13 33 136 200 393 110 123 98 35	° C. 6 4.9 9.6 18.6 24.6 25.5 23.5 14.5 4.2	2 77 228 13 158 494 51 24 64 66 23 0	° C. 1. 5 2. 0 4. 3 10 1 17. 5 23. 0 25. 3 25. 3 22. 3 15. 6 8. 8 4. 1	26 60 91 42 128 222 201 102 118 131 42 38	
Year		100		100		100		100		100	

Table 7.—Seasonal variation in numbers of bacteria contributed to streams by sewered populations

(Yearly average=100)

(1 early avoinge-100)					
1	Tempera- ture	Percentage of annual average			
Month		Gelatin count	Agar count	B. coli	
January February March April May June July August September October November December	2.0 4.3 10.1 17.5 23.0 25.3 25.3 22.3 15.6	27 52 31 77 162 186 115 134 132 155	13 20 22 32 32 107 227 168 185 161 166 69 27	26 60 91 42 128 222 201 102 118 131 42 38	
Year		100	100	100	

If these average values as derived are representative of the bacterial changes in streams in general, as brought about by sewage pollution, they supply a ready means of estimating the maximum concentration of bacteria to be expected in a stream of known discharge resulting from the sewage of a known population. The bacteria per cubic centimeter thus added can be computed at once by the relationship:

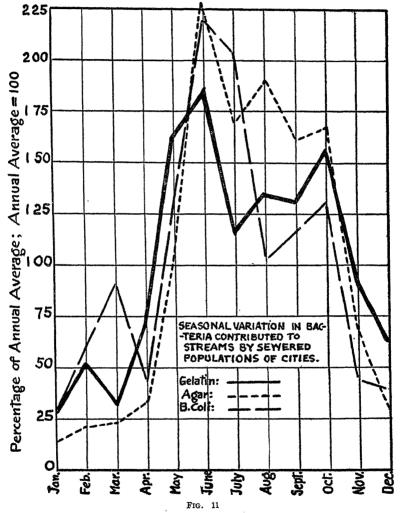
Bacteria per cubic Population x quantity units per capita centimeter added Discharge, in thousands of second-feet

As an example, the average yearly numbers per cubic centimeter of B. coli contributed by Cincinnati (with a sewered population of

494,300) to the Ohio River, where the mean annual flow is 97,500 second-feet, is

$$\frac{494,300\times0.1018}{97.5} = 516$$

Similarly, the concentration for any season or month may be estimated by applying to the yearly average the proper seasonal factor



given in Table 7. Thus, in July, when the discharge of the Ohio River is 19,000 second-feet, the estimated concentration of *B. coli* per cubic centimeter contributed by Cincinnati would be

$$\frac{494,300\times0.1018\times2.01}{19,000} = 5,320$$

Applying this method of estimation to the four cities of Cincinnati, Louisville, Chicago, and Peoria, it is possible to compare directly the computed concentrations of bacteria to be expected in each case with the densities actually observed to have resulted from the sewage pollution contributed. Such a comparison of computed and observed concentrations of B. coli is presented in Table 8, together with the average monthly rates of stream discharge and other related data. It will be noted that, although the estimated concentrations for some individual months differ quite widely from those actually observed, yet in the main the two sets of values are comparable and generally of the same degree of magnitude. Bearing in mind that the actual enumeration of B. coli is subject to considerable variation, it would appear that the use of the formula as a rough working model may be justified.

Table 8.—Comparison of computed and observed concentrations of B. coli contributed by sewered populations

 $\left(B. \ coli\ \text{per cubic centimeter (computed value}) = \frac{\text{ropulation} \land o \ \text{loo} \land \text{accord}}{\text{Discharge (thousands of second-feet)}}\right)$ Peoria, Ill (population, 76,500) Chicago, Ill., (population, 2,834,000) Cincinnati,1 Ohio, Louisville,2 Ky., (population, 494,300) (population, 179,800) Temperature range B. coli B. coli B. coli B. coli mih Computed Computed Computed Computed Discharge Discharge Discharge Discharge Actual Actual Actual Actual Per c. c. 44 1,000 Per sec.-ft. c. c. 8. 31 9, 030 8. 38 20, 600 1,000 1,000 Per Per Per Per Per 1,000 Per 1,000 sec.-ft. 195. 8 212. 7 149. 7 165. 5 92. 9 68. 3 47. 1 38. 5 29. 4 37. 2 ° C. 1. 5 2. 0 sec.-ft. 109. 0 221. 0 c. c. 3,890 5,200 c.c. c. c. c. c. 0. 26 . 60 . 91 January ... February ... 87 26 159 4.3 10.1 17.5 23.0 25.3 25.3 22.3 15.6 306 192.0 8. 74 30, 000 4,050 23, 40 303 March.... 8. 48 14, 300 8. 91 41, 400 9. 37 68, 400 8. 85 65, 500 8. 52 34, 500 . 42 1. 28 2. 22 128  $\frac{232}{720}$ 297.0 38 10, 400 47, 80 68 297. 0 147. 0 28. 8 23. 1 18. 3 20. 9 22. 4 12. 3 96. 5 693 136 40, 500 56, 800 118, 000 24. 40 16. 90 11. 70 4th 358 1, 640 2, 150 1, 530 2, 020 1, 770 716 1, 230 410 590 445 230 020 340 Juue.... 622 241 1, 230 2, 830 2, 830 2, 720 4, 900 2, 070 2. 01 July... 1. 02 1. 18 786 772 August.... 34, 500 39, 600 10, 10 131 8. 23 41, 400 8. 51 44, 300 8. 87 13, 700 8. 67 12, 600 080 September ... 1,360 297 37. 2 29. 5 October .... 1.31 786 30,500 12, 90 .428.8 4.1 625 340 16. 10 November.. 10, 400 100.3 December. . 38 9, 200 25, 10 118 1,530 1.00 990 599 33, 000 Year_ 30, 300 517 349

1 Averages for three years, 1914, 1915, and 1916.

Population×0 1018×factor

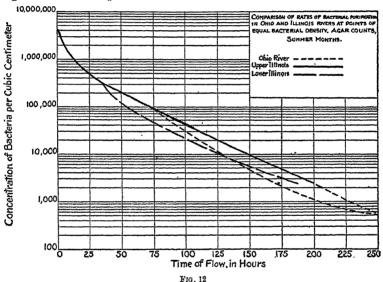
#### RATES OF DECREASE IN BACTERIAL POLLUTION

Quite extensive observations of the decrease of bacteria in polluted waters indicate that such changes follow a fairly regular course, modified by variations in environment, such as temperature and other factors, but yet having on orderly arrangement of reduction. Just what agency is primarily responsible for the death of such bacteria has not been definitely determined. However, there is considerable

² Data for 1914.

evidence suggesting that plankton activity rather than lack of food supply is the dominant influence in bacterial diminution.³

A simple and direct method for determining the rates of baterial decrease in streams, if it were practicable, would be to observe the changes occurring in stored samples of the water under consideration. Unfortunately, the decreases in such stored samples do not correspond invariably with the natural rates occurring in the stream. Long-continued efforts—still in progress—to place the study of bacterial death rates on such an experimental basis, have thus far not been successful. Resort must then be made to the observation of natural purification occurring in streams. Under such conditions, all modifying factors are impossible of accurate control and in many cases



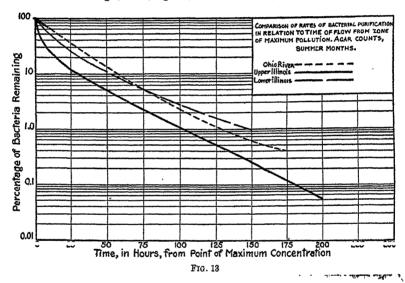
corrections for them can be applied only in an approximate manner. Therefore, rates of decrease thus determined must necessarily be interpreted with these limitations clearly understood.

Studies of natural purification of the Ohio River ⁴ indicate that changes in the bacterial content between Cincinnati and Louisville are quite orderly and that the rates of decrease can be represented in a general way by empirical curves and formulas. Similar observations on the Illinois River have tended to confirm this conclusion and have indicated that such changes may be of general occurrence, rather than confined to these two streams. The rates of decrease in all instances are not directly comparable, however, and, as stated in the Public

³ The effect of plankton animals upon bacterial death rates. By W. C. Purdy and C. T. Butterfield. American Journal of Public Health, Vol. VIII, No. 7, July, 1918, pp. 499-505.

⁺ Presented in detail in Public Health Bulletin No. 143.

Health Bulletin referred to, these rates must be considered as approximate only, since they apparently are modified by other factors, such as density or concentration, and perhaps, also, by relative age or staleness of the sewage contributed. It is certain, at least, that the rates of bacterial decrease from the point of maximum concentration in the Ohio River are quite different from those observed in the Illinois. However, when the disparity in initial concentrations is taken into account and comparisons are made at points of equal bacterial density, the rates coincide much more closely. This condition is perhaps best illustrated by the summer rates of decrease in bacteria growing on agar at 37° C., as observed in the Ohio, in the Illinois River below Chicago, and, again, below Peoria, the base data of which



are given in Table 9. Figure 12 shows these rates plotted from the same origin, and Figure 13 shows the same curves shifted so that at the points of maximum concentration they coincide with the corresponding density of the upper Illinois River curve.

Although such an adjustment according to maximum density brings the rates into closer harmony, characteristic preliminary decreases, probably due to other unknown factors, are still evident in each of the curves. It may finally prove to be impracticable, therefore, to develop a composite expression or curve defining accurately the general rate of bacterial decrease in all streams. A series of such expressions or curves, taking into consideration various modifying factors, may be found to portray best the actual rates of most probable change.

Table 9. - Decrease in agar counts, summer season

#### [As read from curves]

	Ohio	River	Upper Illi	nois Rivei	Lower Illinois River		
Time from maximum, in hours	Per cubic centimeter	Percentage of maximum	Per cubic centimeter	Porcentage of maximum	Per cubic centimeter	Percentage of maximum	
0	99, 300 66, 830 45, 100 30, 500 20, 800 14, 200 6, 840 2, 540 1, 240 497 357	100.00 67.26 45.37 30.71 20.90 14 31 6 89 2 56 1.30 . 76 . 50	3, 890, 000 1, 180, 000 640, C00 410, 000 275, 000 197, 000 106, 000 43, 000 20, 500 9, 600 4, 500 2, 150	100 000 30 300 16, 450 10 550 7. 070 5. 060 2. 720 1. 100 5. 526 2. 247 . 116 . 055	248, 000 121, 000 75, 000 52, 000 38, 000 28, 200 16, 500 7, 300 4, 200 2, 150	100, 00 48, 70 30, 20 21, 00 15, 30 11, 40 6, 65 3, 14 1, 69 , 87	

However, the decreases in bacterial numbers are in a broad way quite similar, and it is possible, from the available data collected, to indicate the general trend of such decreases. Such a general rate of purification, if applicable to a specific case, may assist in forming an estimate of the relative numbers of bacteria that may be expected to survive in the stream after any definite interval of time.

Table 10.—Decreases in B. coli from various maximum concentrations, in relation to time of flow, summer season

Ohio Riv	er Curve 1	Upper Illi	nois River	Lower Illinois River			
Time from maximum, in hours	B. coli per cubic centimeter	Time from maximum, in hours	B. coli per cubic centimeter	Time from maximum, in hours	B. coli per cubic centimeter		
0	2, 280 1, 459 934 599 385 105 - 32 14 8 5	0 10 20 30 40 70 100 125 150 175 200	65, 600 22, 200 11, 800 6, 700 4, 100 1, 100 385 170 76 34 15	0 10 20 30 40 70 100 125	3, 550 1, 300 620 340 190 40 11		

¹ Table No. 125, Public Health Bulletin No. 143.

Such general rates of decrease for *B. coli*, under both summer and winter seasonal conditions, have been outlined by the data of the Ohio and Illinois River studies, and are assembled in Tables 10, 11, and 12. The rates of decrease for the Illinois River were derived from observations on the upper Illinois River in which the sewage of Chicago is the agency of pollution, whereas in the lower Illinois River, the major pollution is contributed by the metropolitan district of

Daily observations at successive downstream sampling stations were averaged over both the summer and winter seasons, and smooth curves defining the rates of natural purification were drawn through these experimentally determined results, plotted on semilogarithmic paper. The method of obtaining the Ohio River rates of decrease is described in Public Health Eulletin No. 143 previously referred to. In addition to these general curves of the Ohio, data defining rates of purification at different maximum densities of bacterial content are presented in Table No. 114 of that publication, wherein are presented observations of bacterial numbers at successive sampling stations grouped according to volume of discharge of the By grouping these data according to initial concentration and by times from origin, average densities for each group have been obtained at various average intervals of time in hours from the point of maximum density. The results of such grouping for different initial densities are also presented in Tables 10, 11, and 12 for summer and winter, respectively, and define average rates of decrease of B. coli starting from the various maximum concentrations.

Table 11.—Decreases in B. coli from various maximum concentrations, in relation to time of flow, summer season

[Ohio River observations grouped by initial concentrations ]

Time from maximum, in hours	B, coli per cubic centimeter	Time from maximum, in hours	B. coli per cubic centimeter	Time from maximum, in hours	B. coli per cubic centimeter	Time from maximum, in hours	B. coli per cubic centimeter	Time from maximum, in hours	B. coli per cubic centimeter	Time from maximum, in hours	B. coli per cubic centimeter	Time from maximum, in hours	B. coli per cubic centimeter	Time from maximum, in hours	B. cali per cubic centimeter
0	8, 237		4, 623	0 4.7 7.3	2, 557 1, 746 1, 560	7. 3	1, 684 961	0 4.6 8.9	1, 211 1, 091 728	0 2.3 6.0	607 325 286	0 3.8 6.3	239 138 100	0 2. 5	165 77
17. 7 24. 9 28. 6	1, 460 1, 548 1, 359	22.8	1,741 1,953 951			11. 5	1, 264	23. 5	336	23. 6	417	12. 5	70	18. 2	70
28.6	1,359	29. 2 36. 4 43. 5	951 604 450	49, 4	325	25. 9 38. 2 45. 1	197 178 402	38. 7	396	27. 3	174	28. 3	25	35. 4	51
		96	122	62. 8	429	64. 2	88	35, 1 84, 5	73 70	30. 8	98	~~~~		•	****
110	94	131	328	118 136	21	101	35								*****
		255	5	159	18 9										

¹ Data from Table No. 114, Public Health Bulletin No. 143.

Table 12.—Decreases in B. coli from various maximum concentrations, in relation to time of flow, winter season

Ohio l			Illinois rve	Lower cui		Ohio River observations grouped by initial of trations 2					eoncen-
Time from maximum, in hours	B. coli per cubic centi- meter	Time from maxi- mum, in hours	B. coli per cubic centi- meter	Time from maxi- mum, in hours	B coli per cubic centi- meter	Time from maximum, in hours	B. coli per cubic centi- meter	Time from maxi- mum, in hours	B. coli per cubic centi- meter	Time from maxi- mum, in hours	B. coli per cubic centi- meter
.0.	260	0	7,200	0	180	0 4.6 7.4	368 62 133	0 3.4 6.6	231 115 98	0 2. 3 6. 0	173 92 86
10	156	10	4,120	10	111	12.8	175			12.5 18 8	130 66
25	78	25	2, 500	25	68	38.3	46	20. 5 26. 1 33. 9	117 40 86	21. 6 27. 3	70 70
						44.3	54		1	49. 7	41
50	31	50	1,400	50	37	59.3	25	64.2	33	51.6	35
75	17	75	890	75	22	83.3	18				
100	12 9	100	610	100	14	104	.8				
125	9	125 150	422 300			131	11				
		175	210								
		200	150								
		-00	100								

¹ Table No. 127, Public Health Bulletin No. 143. ² Data from Table No. 114, Public Health Bulletin No. 143.

If these data are plotted on semilogarithmic paper, in which the concentrations of B. coli are plotted as ordinates on the logarithmic scale and the times from maximum concentration as abscissas on the plain scale, it will be observed that these points define, in a general way, fairly smooth curves, all of which have the same general trend. It may be noted also that the curves of winter purification are of much flatter slope than are those of summer, indicating that natural purification proceeds at much slower rates during cold weather. It is entirely possible, therefore, regardless of the generally lower numbers of bacteria contributed during the winter season, that the critical or most severe period of bacterial pollution to be expected from a given sewage discharged upstream may occur during the winter, rather than during the summer. This is, of course, the reverse of what would be expected of the critical oxygen depletion condition resulting from the same sewage pollution.

Having obtained the general rates of decrease in *B. coli* for various initial concentrations, it is possible to interpolate intermediate rates of decrease, starting from definite initial concentrations. Such interpolated rates should indicate, in a general way, the numbers of *B. coli* that may be expected to survive after definite intervals of time have clapsed beyond the point of greatest bacterial density in the stream. Such rates of decrease are for convenience placed in tabular form for ready reference in Tables 13 and 14, Table 13 repre-

senting summer conditions and defining numbers of bacteria remaining after definite intervals of time, starting from various densities at the maximum point, and Table 14 presenting the same data for winter months.

Table 13.—Numbers of B. coli per cubic continueter remaining after stated times of flow from point of maximum concentration, summer season

Initial maximum	B. coli per cubic centimeter remaining after interval of—											
concentration of B. coli	10 hours	25 hours	50 hours	75 hours	100 hours	125 hours	150 hours	175 hours	200 hours			
75,000	30, 000 20, 000 14, 000 7, 600 4, 000 2, 300 440 260 40	9, 800 7, 900 5, 900 3, 000 1, 600 1, 100 210 130 20	2,900 2,300 2,000 1,070 640 410 80 70	1,000 800 600 420 270 170 30 25	420 350 270 190 130 78 13	190 150 120 94 68 42 5	84 70 57 47 36 24	37 32 27 25 20 15	17 15 13 12 12			

Table 14.—Numbers of B. coli per cubic centimeter remaining after stated times of flow from point of maximum concentration, winter season

Initial maximum	B coli per cubic centimeter remaining after interval of—											
concentration of B. coli	10 hours	25 hours	50 bours	75 hours	100 hours	125 hours	150 hours	175 hours	200 hours			
10,000. 5,609. 1,000. 500.	6, 000 3, 000 520 240 62	3, 500 1, 800 280 120 40	2,000 960 140 60 20	1, 200 600 80 32 12	840 400 54 21 7	600 300 38 15	420 200 26	300 110	200			

However, before such estimates can be accepted with complete confidence it is obviously necessary that they be checked by observations on a considerable number of streams of different physical characteristics. The empirical results herein presented outline what the observations thus far have indicated to take place and endeavor to suggest their practical application. The explanation of the phenomena concerned in such changes must await additional research.

#### SUMMARY

Quite extended observations of the pollution of Illinois and Ohio Rivers have indicated that the numbers of bacteria contributed per capita by the sewered populations of various cities are reasonably constant; these numbers change, however, with seasonal temperature, being much greater in summer than in winter. Such bacteria tend to increase in numbers in the receiving stream for a short period and then decrease at orderly rates as the time from the point

of maximum density is increased. These rates of decrease were found to be affected by water temperature and apparently by concentration, being most intensive during the warmer months and under conditions where the density of bacteria was greatest.

Having established definite quantitative relationships from these observations, and assuming that they are fairly representative of stream conditions in general, a method is suggested for estimating the maximum concentration of B. coli in streams of known volume of flow that may be expected to result from pollution contributed by known sewered populations. Furthermore, the concentration of such organisms remaining at any point downstream may be estimated, providing the velocity of flow is ascertained.

If the observations are representative of general biological laws, they are of practical value for estimating the increasing burden placed on streams receiving the sewage of growing communities and, consequently, the added loads that water-purification plants must be prepared to handle where such polluted watercourses are used as sources of water supply.

# MEASLES IN THE UNITED STATES, 1923, 1924, AND 1925

The following table gives the numbers of cases of measles reported each quarter during the years 1923, 1924, and 1925 by State health officers of 42 States. The figures are preliminary for most of the States. Final figures will be published later.

The numbers of cases fluctuate widely. This is a characteristic of statistics for measles. In general, the figures for 1925 are low, but the last quarter of that year shows a relative increase in many parts of the country.

Cases of measles reported during 1925, by State health officers, compared with similar reports for the years 1923 and 1924

	First quarter	Second quarter	Third quarter	Fourth quarter	Total 12 months
New England:					
Maine— 1925. 1924	137 1,725 937	134 1,242 2,359	59 124 578	33 53 415	363 3, 144 4, 289
New Hampshire— 1925	269 1,005	411 777	85 43	18 133	783 1, 958
1928	158	860 278	588 144	1,384 69 229	2, 990 579 3, 595
1924 1923 Massachusetts—	2, 224 259	2,529	143 889	1,698	5, 375
1925. 1924. 1973. Connecticut—	6, 272 9, 943 11, 105	10,696 9,944 11,208	1, 644 1, 235 1, 465	10, 204 1, 303 3, 076	28, 816 22, 425 26, 854
1925	1, 122 2, 420 4, 968	2,813 1,769 2,593	436 320 400	1,173 117 1,699	5, 544 4, 626 9, 660
Total— 1925 1924 1923	7, 888 17, 317 17, 427	14,332 14,731 19,549	2, 368 1, 865 3, 920	11, 497 1, 835 8, 272	36, 085 35, 748 49, 168
Middle Atlantic: New York— 1925	5, 240	10,722	2, 157	11,482	29, 601
1924 1923 New Jersey— 1925	32, 703 14, 364	32, 098 33, 742	3, 428 6, 662 741	1, 970 9, 857 2, 703	70, 199 64, 625
1924. 1923. Penisylyania.—	2, 154 6, 165 14, 238	5, 003 8, 234 10, 802	813 868	1,881	10, 601 15, 787 27, 789
1925. 1924. 1923.	11,075 9,042 59,230	21, 049 7, 792 32, 118	2,497 1,530 2,474	7, 109 3, 681 5, 469	41, 730 22, 045 99, 291
Total— 1925. 1924. 1923.	18, 469 47, 910 87, 832	36, 774 48, 124 76, 662	5, 395 5, 771 10, 004	21, 294 6, 226 17, 207	81, 932 108, 031 191, 705
East North Central: Ohio— 1925.	1,900	5, 369	724	6, 031	14, 033
1924. 1923. Indiana—	4, 348 18, 732	8,836 26,334	878 1,356	. 1,301	14, 550 47, 723
1925. 1924. 1923. Illinois—	1, 750 7, 730 2, 448	1,712 4,960 13,782	209 274 739	422 313 2, 161	4, 093 13, 277 19, 080
1925. 1924. 1923. Michigan—	8, 854 7, 430 12, 769	16, 232 10, 124 28, 716	1,302 1,251 1,851	1,823 1,339 3,369	28, 211 20, 144 46, 705
1925. 1924. 1923. Wisconsin—	2, 181 7, 867 2, 253	5, 729 8, 182 21, 238	636 935 2,606	1,786 1,306 3,944	10, 332 18, 290 30, 041
W ISCONSIN— 1925. 1924. 1923.	5, 643 5, 033 14, 830	5, 635 4, 045 14, 396	1,075 630 1,783	1,374 1,217 3,112	13, 727 10, 925 34, 121
Total— 1925. 1924. 1923.	20, 337 32, 408 51, 032	34, 677 36, 147 104, 416	3, 946 3, 968 8, 335	11, 436 4, 663 13, 887	70, 396 77, 186 177, 670

Cases of measles reported during 1925, by State health officers, compared with similar reports for the years 1923 and 1924—Continued

	First quarter	Second quarter	Third quarter	Fourth quarter	Total 12 months
West North Central:					-
Minnesota— 1925	385	362	43	68	858
1924	3,798	1,740	173	171	5, 882
1923	4,395	8, 422	687	2, 255	15, 759
Iowa— 1925	38	92	13	94	237
1924	3,008	576	66	51	3, 701
1923	520	1, 662	75	430	2, 687
Missouri— 1925	152	282	72	91	597
1924	7, 261	3, 194	177	64	10, 696
1923	5, 434	3, 194 14, 061	635	2,587	22, 717
North Dakota—	41	32	11	30	114
1925 1924	3, 354	732	79	223	4, 388
1923	118	559	298	1,630	2,605
South Dakota—					1
1925	31 4, 792	26 1,699	18 102	15 11	90 6, 604
1923	222	961	275	1,483	2, 941
Nebraska—					1
1925	22	37	14 21	23 13	96
1921 1923	5, 413 177	1, 551 349	84 84	1, 260	6, 998 1, 870
Kansas—		010	0.	1, 200	1,0.0
1925	103	155	54	132	444
1924	13, 692 1, 398	6, 401 7, 227	125 669	45 1, 485	20, 263 10, 779
1923	1,000	1,421	- 000	1, 100	10,115
Total— 1925	772	986	225	453	9 436
1924	41, 318	15, 893	743	578	2, 436 58, 532
1923	12, 264	33, 241	2, 723	11, 130	59, 358
South Atlantic					
Delaware—					
1925	16 51	108 121	38 16	37 4	199 192
1924	783	301	20	68	1, 172
Maryland—					l
1925 1924	598	602	270	1,798	3, 268
1923.	2, 276 3, 960	3, 112 10, 068	335 992	184 511	5, 907 15, 531
District of Columbia—		20,000			
1925	209	451	89	48	797
1924 1923	134 1, 916	248 5, 437	20 93	23 64	425 7, 510
Virginia—	-	0, 101	"	1	1,010
1925	1,610 9,717	3, 121	534	930	6, 195
1924 1923	9,717	5, 861	414 3,620	905	16, 897 47, 843
West Virginia—	11, 678	29, 042	3, 020	3, 503	47, 543
1925	462	1,447	103	359	2,371
1924	486	1, 238 7, 273	155	171	2, 371 2, 050
1923 North Carolina—	2,791	7,273	601	174	10, 839
1925	489	249	47	217	1,002
1924	23, 632	10,449	488	369	34, 938 52, 068
1923 South Carolina—	14, 513	27, 035	2,963	7, 555	52,068
1925	6	76	64	64	210
1924	3, 741 289	502	7	6	4, 256
1923 Georgia—	289	623	135	888	1, 935
1925	151	354	19	24	548
1924	3,046	439	34	103	3, 622
1923 Florida—	2, 282	3,002	547	2,005	7,836
1925	50	43	9	26	128
1924	2,712 228	491	15	6	3, 224
1923	228	1,323	246	1, 107	3, 224 2, 904
Total—		<u> </u>			
1925	3, 591	6, 451	1, 173	3, 503	14, 718
1924 1923	45, 795 38, 440	6, 451 22, 461 84, 104	1, 484 9, 217	1,771 15,875	1 71,511
	00, 120	ort, 104	3, 411	10,875	147, 636
					,
East Scuth Central:					
East Scuth Central: Mississippi— 1925.	1, 507	1,354	456	1,497	4, 814
East Scuth Central: Mississippi—	1, 507 17, 697 10, 810	1, 354 7, 225 10, 339	456 409 1, 321	1, 497 276 2, 806	4, 814 25, 697 25, 276

Cases of measles reported during 1925, by State health officers, compared with similar reports for the years 1923 and 1924—Continued

	First quarter	Second quarter	Third quarter	Fourth quarter	Total 12 months
West South Central:				***************************************	
Arkansas—	401	000	40	11	mmo
1925 1924	431 3, 707	292	310	15 122	778 6, 279
1923	935	2, 140 2, 807	522	649	4, 913
Louisiana—	000				1
1925	34	25	6	17	82
1924	4, 731	1,365	61	33	6, 190
1923Oklahoma—	127	1,029	205	1,702	3,063
1925	172	54	19	33	278
1924	1,932	2, 097	16	21	4,066
1923	1,821	1, 901	102	172	3, 996
Texas—		400	33	_	1 000
1925 1924	1, 172 9, 208	438 2, 666	331	9 426	1,652
1923.	1,436	1,076	229	1,516	12, 631 4, 257
10%0+		2,010		2,019	2,20.
Total—			ł		1
1925	1,809	809	98	74	2, 790
1924	19, 578 4, 319	8, 268	718 1,058	602	29, 166
1923	4, 319	6, 813	1,000	4, 039	16, 229
Mountain:			ĺ		
Montana-		ĺ	}		1
1925	277	169	9	31	486
1924	5, 237 80	732	20 226	60	6,049
1923.	80	296	220	1, 933	2, 535
Wyoming— 1925	43	76	4	6	129
1924	1, 522	826	28	78	2, 454
1923	61	234	159	812	2, 454 1, 266
Colorado					ļ
1925 1924	58	109	58 67	51 29	276
1923	6, 160 255	3, 226 4, 677	474	1, 454	9, 482 6, 860
New Mexico—	200	2,011	***	2, 102	0,000
1925	418	169	6	5	598
1924	1.853	1,828	102	461	4, 244
. 1923	252	453	95	256	1,056
Arizona— 1925	766	613	20	9	1 408
1924	1,115	735	36	216	1, 408 2, 102
1923	26	735 376	28	129	559
Nevada—	1 _	)	j		
1925	5	.0	1 3	2	8 614
1924 1923	443	158 31	15	10 87	140
1000	<u> </u>	0.1			110
Total—	l	1			
1025	1, 567 16, 330	1, 136 7, 505	98	104	2, 905
1924	16, 330	7,505	256 997	854	5
1923	001	6,067	907	4,671	111
Pacific:					
Washington—					1
1925	144	79	22 77	102	347
1924	19, 821	.1, 367	77	107	21, 372
1923 Oregon—	79	795	290	7, 180	8, 344
1925	57	46	23	61	187
1924	4, 470	691	40	41	5, 242
1923	64	50	84	5, 157	5, 355
California—			000	010	l .
1925. 1924.	758	1,111	289 599	242 414	2, 400
1923	14, 278 5, 382	12, 082 14, 228	3,370	3, 901	2, 400 27, 373 26, 881
	-,	,	,	-,	30,001
Total—					1 1 1 2 2 2
1925	959	1, 236 14, 140	334	405	2, 934
1924 1923	38, 569 5, 525	14, 140 15, 073	716 3,744	562	53, 987
	U, 040	10,013	0, 124	16, 238	40, 580
Grand total—					1
1925	56, 899	97, 755	14,093	50, 263	219, 01
1924 1923	56, 899 276, 922 228, 330	97, 755 174, 494 356, 264	14, 093 16, 020 41, 319	50, 263 17, 367 94, 125	219, 01 ⁴ 484, 80 720, 03.
	, yyx 221)	1 KM 984	41.310	94, 125	1 720 03.

# QUALIFICATIONS REQUIRED OF MUNICIPAL BACTERIOLOGIST IN ALEXANDRIA, EGYPT

The president of the municipal commission of Alexandria, Egypt, has recently invited applications for the position of chief bacteriologist in the city of Alexandria. This position is a full-time office and does not permit of private practice. The initial salary is £E 900 (approximately \$4,450), with biennial increases of \$400 to a maximum salary £E 1,140 (\$5,650).

Candidates must not be over 45 years of age, must have proper medical qualifications, and must have had considerable experience in municipal bacteriological work, especially in water examination. Preference will be given to persons having a degree in public health and to those with experience in the bacteriology of tropical diseases.

The following documents must accompany applications:

- 1. Official certificate of birth (certified copy).
- 2. Certified copies of diplomas and documents proving candidate's attainments and experience in bacteriology.
- 3. Certificate of moral character.
- 4. Certificate of good health signed by two physicians, who must be officials of Federal, State, or local government.
- 5. A formal agreement to take up the duties of the position, in case of appointment, within one month from date of appointment.

The applicant should note in his application the languages which he understands.

Applications should be addressed to the president of the municipal commission, Alexandria, Egypt, and must be received not later than March 10, 1926.

## ABSTRACT OF CURRENT PUBLIC HEALTH COURT DECISION

Sexual sterilization act held valid.—(Virginia Supreme Court of Appeals; decided November 12, 1925.) The special board of directors of the State colony for epileptics and feeble-minded, acting under authority of chapter 394 of the acts of 1924, entered an order, in compliance with a petition of the superintendent of the colony, that the plaintiff be sexually sterilized. On appeal to the circuit court this order was upheld and a further appeal to the supreme court of appeals was taken. The constitutionality of the act was challenged on the grounds that (1) it did not provide due process of law; (2) it imposed a cruel and unusual punishment; and (3) it denied the plaintiff and other inmates of the colony the equal protection of the law. The supreme court of appeals decided adversely to the plaintiff on all three contentions and held the law to be a valid enactment under the State and Federal Constitutions. (Buck v. Bell, Superintendent of State Colony for Epileptics and Feeble-Minded, 130 S. E. 516.)

¹The Egyptian pound is worth \$4.913.

# Examination for Entrance Into the Regular Corps of the Public Health Service

Examinations of candidates for entrance into the Regular Corps of the United States Public Health Service will be held at the following-named places on the dates specified:

Washington, D. C., March 15, 1926.

Chicago, Ill., March 15, 1926.

New Orleans, La., March 15, 1926.

San Francisco, Calif., March 15, 1926.

Candidates must be not less than 23 nor more than 32 years of age, and they must have been graduated in medicine at some reputable medical college, and have had one year's hospital experience or two years' professional practice. They must pass satisfactorily, oral, written, and clinical tests before a board of medical officers and undergo a physical examination.

Successful candidates will be recommended for appointment by the President with the advice and consent of the Senate.

Requests for information or permission to take this examination should be addressed to the Surgeon General, United States Public Health Service, Washington, D. C.

# DEATHS DURING WEEK ENDED FEBRUARY 6, 1926

Summary of information received by telegraph from industrial insurance companies for week ended February 6, 1926, and corresponding week of 1925. (From the Weekly Health Index, February 9, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week ended Feb. 6, 1926	Corresponding week, 1925
Policies in force	63, 335, 002	58, 552, 142
Number of death claims	12, 377	11, 254
Death claims per 1,000 policies in force, annual rate_	10, 2	10. 0

Deaths from all causes in certain large cities of the United States during the week ended February 6, 1926, infant mortality, annual death rate, and comparison with corresponding weck of 1925. (From the Weckly Health Index, February 9, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week en	ded Feb. 926	Annual death		under 1 ear	Infant mortality
City	Tetal deaths	Death rate 1	rate per 1,000 cor- respond- ing week 1925	Week ended Feb. 6, 1926	Corre- sponding week, 1925	rate week ended Feb 6, 1926 ²
Total (67 cities)	8, 172	15. 2	14. 4	895	969	³ 73
Akron Albany 4	49 33	14.6	19. 5	7	9	74 21
Atlanta	63 27			8	6	
White Colored	36	(5)		4		
Baltimore 4	339 259	`22. 2	16.7	26 19	34	76 68
Colored	80	(5) 24.8		. 7		114
Birmingham White	98 50		18.0	9	8	
Colored Boston	48 228	(5) 15, 2	19.3	6 30	35	85
Bridgeport	30			2 19	3	34
Buffalo Cambridge	156 29	15 0 12.6	12. 5 15. 3	19 1	. 20	79 17
Camden	42	17.0	14. 6 8. 8	5	4 3	85 133
Canton Chicago	24 753	11.8 13.1	13.1	6 86	121	76
Cincinnati Cleveland	163 237	20.8 13.2	16.8 11.6	10 25	12 25	62 65
Columbus	84	15 7	14.7	7	9 7	64
DallasWhite	57 44	15 4	16.4	25 7 7 5	7	
Colored Dayton	13 30	(5) 9. 0	12.4	2 2 9		31
Denver	92	17. 1 15. 7	14.1		3 7	1
Des Moines Detroit	45 312	15.7	11. 2 11. 4	4 57	3 49	67 92
DuluthEl Paso	24 57	11 3 28.3	14.6 19.4	4 11	27	94
Erie	34			3 7	5	57
Fall River 4 Flint	32 27	12.9 10.8	10.1 9.6	7	4 6	102 66
Fort Worth	44	15.1	10.3		2	
WhiteColored	36 8	(8)		6 5 1 5 8		
Grand Rapids	32 60	10.9	11.2 17.4	5 6	10	72
White	42 18			5		
Colored Indianapolis	91 77	(5) 13. 2	13, 1	5 1 5 5 0 6 3 3	9	87
White Colored	77 14	(5)		5 0		42 0
Jacksonville, Fla	41	(5) 20. 4	21.9	6	3	131
White Colored	24 17	(5) 15. 5		3		
Jersey City Kansas City, Kans	94 32	15. 5 14. 4	13. 9 13. 5	15 2	12	106 35
White	28	1		2 2 0		42
Colored Kansas City, Mo	123	(5) 17. 5	13.8	12	11	
Los Angeles Louisville	285 88	15. 2	13.5	23 8	24 12	64 69
White Colored	71	1		6		126
Lowell	17 42	(5) 19, 9	18.4	2 2 1	11	37
Lynn	23	11.6	16. 2	i 1	4	25

¹ Annual rate per 1,000 population.
² Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1924. Cities left blank are not in the registration area for births. 3 Data for 63 cities.

Deaths for week ended Friday, Feb. 5, 1926.

Deaths for week ended Friday, Feb. 5, 1926.

In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans, 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended February 6, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, February 9, 1926, issued by the Bureau of the Census, Department of Commerce)—Continued

				-		
	Week end	ded Feb. 926	Annual death		under 1 ar	Infant mortality
City	Total deaths	Death rate	rate per 1,000 cor- respond- ing week 1925	Week ended Feb. 6, 1926	Corresponding week, 1925	rate week ended Feb. 6, 1926
Memphis	75	22. 4	20.3	3	12	
White	34			2		
Colored	41	(8)		.1		
Milwaukee Minneapolis	118 99	12.3	11.1 11.4	15 17	24	. 69
Nashville 4	60	23.0	16.8	10	0	95
White	41	20.0	20.0	8		
Colored	19	(5)		2 5		
New Begiord	23	10.0	12.6	5	5	87
New Haven New Orleans	43 220	12.5 27.7	11.9 20 S	3 21	3 17	41
White.	129	21.1	20 5	11	11	
Colored	91	(5)		10		
New York	1,654	14.7	15.0	183	180	74
Bronx Borough	192	11.5	12 2	19	24	63
Brooklyn Borough Manhattan Borough	522 727	12.4	12.6	74 75	55	75
Wileans Rotolian	162	19 5 11 8	20. 2 10. 9	11	87	83 50
Richmond Borough	51	19 2	18.5	4	1 4	70
Newark, N. J.	119	13.7	11.2	18	10	86
Norfolk	30			1	5	37
White Colored	12					30
Onkland	18 58	(5) 11.9	9. 9	1 3	7	50
Oakland Oklahoma City	19	11.5	0.0	2	2	35
Omaha	50	12.3	19.0	2 8	2 8	84
Paterson	50	18.4	9.9	4	2	70
Philadelphia Pittsburgh	593 180	15.6	15.4	62 19	73	82
Portland, Oreg	71	14. 9 13. 1	19.3	19	37	63 41
Providence	85	16.5	17.3	11	l ii	91
Richmond	50	14.0	16 8	7	10	88
White.	28			4		78
Colored	22 76	(5) 12. 5		3		105
St. Paul	54	11 4	14 0 11 7	9	12 2	72 27
St. Paul Salt Lake City 4	49	19.5	10.0	9	1 4	121
Sen Antonio	.1 79	20 8	16.3	12	9	
San Diego San Francisco		23.6	21.1	1	3	21
Schenectady.	197 32	18 4 18.0	13.7 9.6	6 2	12	36
Souttla	1727	15.0	3.0	ő	6	58 56
Somerville	17	9.0	10, 5	ž	ĭ	52
Spokane Springfield, Mass	25	12.0	12.0	1	3	23
Syracuse		16.5	17.6	5	8	72
Tacoma	50 28	14. 3	16.0 8.5	3 3	4	38
Toledo	20	11.4	13.4	6	5	70 58
Trenton	43	17. 0	22.1	5	š	84
Trenton Washington, D. C White	188	19. 7	15.0	19	10	108
Colored	119			10		83
Waierbury	69 24	(4)		9		164
Waterbury Wilmington, Del Yonkers	36	15. 4	15 4	1	4 7	43 23
Yonkers	36 31	14. 2	10.6	7	4	157
Youngstown	32	10. 4	12. 4	10	7	127
	1					

⁴ Deaths for week ended Friday, Feb. 5, 1926. ⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentage of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Hoiston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 20, Norfolk 38, Richmond 32, and Washington, D. C., 25.

# PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

# UNITED STATES

#### CURRENT WEEKLY STATE REPORTS

These reports are preliminary and the figures are subject to change when later returns are received by the

State health officers

## Reports for Week Ended February 13, 1926

ALABAMA	,	CALIFORNIA	
AMADABIA	Cases		Cases
Chicken pox	72	Cerebrospinal meningitis:	
Diphtheria	18	Fresno County	1
Influenza	688	Los Angeles	4
Malana	2	Los Angeles County	1
Measles	53	Sacramento	2
Mumps	9	San Jose	1
Ophthalmia neonatorum	1	Santa Barbara	2
Pellagra	6	Siskiyou County	1
Pneumonia	187	Chicken pox	420
Scarlet fever	10	Diphtheria.	91
Smallpox	57	Influenza	479
Tuberculosis	25	Lethargic encephalitis—Los Angeles County.	
Typhoid fever	3	Measles	_
Whooping cough	16	Mumbs	
At moothing condu-	10	Poliomyelitis:	200
ARIZONA		Fresno County	1
Chicken pox	41	Los Angeles	_
Diphtheria	5	Oakland	. 1
Influenza	6	Sonoma County	1
Measles	3	Scarlet fever	
Mumps	13	Smallpox.	100
Pneumonia.	2	Los Angeles	122
Scarlet fever	23	Les Angeles County	
		Oakland	
Smallpox	- 0 1		
Trachoma	_	Scattering	
Tuberculosis		Typhoid fever	
Typhoid fever		Whooping cough	57
Whooping cough	1	COLORADO	
ARKANSAS		Chicken pox	
Chicken pox	27	Diphtheria	. 17
Diphtheria		Influenza	. 2
Hookworm disease		Measles	4
		Mumps	
Influenza		Paratyphoid fever	. 1
Malaria		Pneumonia	. 3
Measles		Scarlet fever	. 36
Mumps		Smallpox	
Pellagra		Tuberculosis	
Scarlet fever		Vincent's angina	
Smallpox		Whooping cough	
Trachoma	-		
Tuberculosis.		CONNECTICUT	
Typhoid fever		Chieken pox	
Whooning cough	. 40	Conjunctivitis (infectious)	_ 1
	(3	39)	

connecticut—continued	. 1	IDAHO	Cases
	lases	Cerebrospinal meningitis—Coeur d'Alene	1
Diphtheria	10	Chicken pox.	24
German measles	9	Diphtheria	
InfluenzaLethargic encephelitis	1	Influenza	
	545	Measles	. 5
Measles	17	Mumps	
MunpsPneumonta (broncho)	24	Pneumonia	
Pneumonia (lobar)	55	Scarlet fever	
Scarlet fever	78	Smallpox	
Septic sore throat	1	Whooping cough	
Tuberculosis (all forms)	18		
Typhoid fever	3	ILLINOIS	
Whooping cough.	68	Cerebrospinal meningitis:	
		Cook County	
DELAWARE	4 20	Jersey County	
Chicken pox	17	Diphtheria	107
Diphtheria	5 2	Influenza	
Influenza	257	Lethargic encephalitis-Cook County	
Measles	201 5	Measles	
Pneumonia.	2	Pneumonia	492
Scarlet fever		Poliomyelitis:	
Tuberculosis	11	Cook County	
Typhoid fever	1	Tazewell County	
Whooping cough	٥	Scarlet fever	539
DISTRICT OF COLUMBIA		Smallpox:	
Chicken pox	53	White County	
Diphtheria	32	Scattering	_ 33
Influenza	12	Tuber culosis	
Measles	68	Typhoid fever	- 11
Pneumonia	94	Whooping cough	_ 202
Scarlet fever	29	INDIANA	
Tuberculosis	21	1 .	-
Whooping cough	20	Chicken pox	
FLORIDA		Diphtheria	
Chicken pox	27	Influenza	
Diphtheria	20	Measles.	
German measles	1	Pneumonia.	
Influenza	26	Poliomyelitis	
Malaria	2	Scarlet fever	
Measles	2	Smallpox	
Mumps	24	Tuberculosis	
Paratyphoid fever	1	Typhoid fever	
Pneumonia	14	whooping cought	. 00
Scarlet fever	9	IOWA	
Smallpox	121	Chicken pox	. 37
Tetanus	1	Diphtheria	
Tuberculosis	9	German measles	
Typhoid fever	12	Measles	
Whooping cough	17	Mumps	
GEORGIA		Pneumonia	
Chicken pox	43	Poliomyelitis	
Diphtheria		Scarlet fever	
Dysentery		Smallpox	
Influenza		Tuberculosis	
Leprosy		Whooping cough	. 21
Malaria			. ~.
Mensles .		KANSAS	
Mumps		Cerebrospinal meningitis	_ 1
Pellagra		Chicken pox	
Pneumonia		Diphtheria	
Scarlet fever		German measles	. 4
Septic sore throat		Influenza	53
Smallpox		Measles	127
Tuberculosis		Mumps	. 12
Typhoid fever	7	Pneumonia	. 108
Whooping cough		Scarlet fover	_ 80
			- 44

Kansas—continued	Cases	MASSACHUSETTS—continued	Cases
Smallpor	Cases 7	Septic sore throat	Casus 3
Tetanus	2	Trachoma	1
Tuberculosis	30	Trichinosis	1
Typhoid fever	2	Tuberculosis (pulmonary)	112
Whooping cough	98	Tuberculosis (other forms)	16
LOUISIANA		Typhoid fever	4
Diphtheria	17	Whooping cough	346
Influenza	357	MICHIGAN	
Pneumonia	64	Diphtheria	103
Scarlet fover	15	Measles	
Smallpox	51	Pneumonia	201
Tuberculosis	57	Scarlet fever	385
Typhoid fever	17	Smallpox	9
Whooping cough	4	Tuberculesis	61
MAINE		Typhoid fever	5
Chicken pox.	26	Whooping cough	269
Diphthqua.		MINNESOTA	
Influenza	33		
Measles.	20	Chicken pov	164
Mumps.		Diphtheria Influenza	40 3
Pneumonia		Measles	76
Poliomyelitis	1	Pneumonia	3
Scarlet fever	26	Scalet fever	387
Septic sore throat	3	Smallpox	14
Tuber culosis	1	Tuberculosis	49
Tuberculous meningitis.	3	Typhoid fever	3
Typhoid fever	1	Whooping cough	47
Vincent's angina			
Whooping cough	16	MISSISSIPPI	
MARYLAND ¹		Diphtheria Influenza	19 651
Cerebrospinal meningitis	1	Scarlet fever	12
Chicken pox	1	Smallpox	11
Diphtheria		Typhoid fever	3
Dysentery		-, 1	-
German measles	5	MISSOURI	
Influenza	776	(Exclusive of Kansas City)	
Measles	1,416		_
Mumps		Cerebrospinal meningitis	1
Paratyphoid fever		Chicken pox.	79
Pneumonia (broncho)		Diphtheria Epidemic sore throat	70 4
Pneumonia (lobar)		Influenza.	9
Scarlet fever		Measles	71
Septic sore throat		Mumps	
Tetanus.	43	Pneumoma	
Tuberculosis Typhoid fever	4	Scarlet fever	
Whooping cough		Sinallpox.	
11 WOOD COOPMATTERS		m	52
		Tuberculosis	
MASSACHUSETTS			
MASSACHUSETTS Cerebrospinal meningitis		Typhoid feverWhooping cough	3
Cerebrospinal meningitis	254	Typhoid fever	3
Cerebrospinal meningitis	254 2	Typhoid fever	3 20
Cerebrospinal meningitis	. 254 . 2 . 85	Typhoid fever Whooping cough MONTANA Chicken pox	3 20 18
Cerebrospinal meningitis	. 254 . 2 . 85 . 87	Typhoid fever Whooping cough  MONTANA Chicken pox German measles	3 20 18 7
Cerebrospinal meningitis.  Chieken pox.  Conjunctivitis (suppurative).  Diphtheria  German measles.  Influenza.	. 254 . 2 . 85 . 87	Typhoid fever Whooping cough  MONTANA Chicken pox German measles Influenza	3 20 18 7 2
Cerebrospinal meningitis. Chicken pox. Conjunctivitis (suppurative). Diphtheria German measles. Influenza Lethargic encephalitis.	. 254 . 2 . 85 . 87 . 12	Typhoid fever Whooping cough  MONTANA Chicken poa German measles Influenza Measles	3 20 18 7 2
Cerebrospinal meningitis. Chicken pox. Conjunctivitis (suppurative). Diphtheria German ineasles. Influenza Lethargic encephalitis. Measles.	254 2 85 87 12 3	Typhoid fever Whooping cough  MONTANA  Chicken pox German measics Influenza Measics Mumps	3 20 18 7 2 6
Cerebrospinal meningitis. Chieken pox. Conjunctivitis (suppurative). Diphtheria. German measles. Influenza Lethargic encephalitis. Measles. Mumps.	254 2 85 87 12 3 1,564	Typhoid fever.  Whooping cough.  MONTANA  Chicken pox.  German measles.  Influenza.  Measles.  Mumps.  Searlet fever.	3 20 18 7 2 6 14 15
Cerebrospinal meningitis. Chicken pox. Conjunctivitis (suppurative). Diphtheria. German mensles. Influenza. Lethargic encephalitis. Measles. Mumps. Ophthalmia neonatorum.	254 2 85 87 12 3 1,564 63	Typhoid fever.  Whooping cough  MONTANA  Chicken pox. German measles Influenza Measles Mumps Scarlet fever. Septic sore throat	3 20 18 7 2 6 14 15
Cerebrospinal meningitis. Chicken pox. Conjunctivitis (suppurative). Diphtheria. German ineasles. Influenza. Lethargic encephalitis. Measles. Mumps. Opht halmia neonatorum. Pneumonia (lobar).	254 2 85 87 12 3 1,564 63 32	Typhoid fever.  Whooping cough.  MONTANA  Chickeu poa. German measles. Influenza. Measles. Mumps. Scarlet fever. Septic sore throat. Smallpax	3 20 18 7 2 6 6 14 15 15 1 14
Cerebrospinal meningitis. Chicken pox. Conjunctivitis (suppurative). Diphtheria German ineasles. Influenza Lethargic encephalitis. Measles. Mumps. Ophthalmia neonatorum. Pneumonia (lobar)	254 285 87 12 3 1,564 63 32 115	Typhoid fever.  Whooping cough.  MONTANA  Chicken pox.  German measles.  Influenza.  Measles.  Mumps.  Scarlet fever.  Septic sore throat.  Smallpox.  Tuberculosis.	3 20 18 7 2 6 14 15 1 14 7
Cerebrospinal meningitis. Chicken pox. Conjunctivitis (suppurative). Diphtheria. German ineasles. Influenza. Lethargic encephalitis. Measles. Mumps. Opht halmia neonatorum. Pneumonia (lobar)	254 285 87 12 3 1,564 63 32 115	Typhoid fever.  Whooping cough.  MONTANA  Chickeu poa. German measles. Influenza. Measles. Mumps. Scarlet fever. Septic sore throat. Smallpax	3 20 18 7 2 6 14 15 1 14 7

NEBR \SKA	. 1	OKLAHOMA	
	ases	(Exclusive of Tulsa and Oklahoma City)	
Chicken pox	23	(	Jases
Influenza	14	Cerebrospinal meningu(isMuskogee	1
Measles	9	Chicken pox	34 21
Mumps	14	Influenza	601
Pneumonia	1	Malaria	11
Scarlet fever	41 17	Monsles	11
Smallpox Tuberculosis	1	Mumps	12
Typhoid fever	ī	Pellagra	11
Whooping cough	22	Pneumonia	211
NEW JERSEY		Scarlet feverSmallpox.	31
Cerebrospinal meningitis	2	Carter	12
Chicken pox	311	Scattering	G
Diphtheria	83	Typhoid fever	3
Influenza	41 1	Whooping cough	46
Malaria Measles		ORFGON	
Pneumonia	189	Cerebrospinal meningitis	3
Scarlet fever	197	Chicken pox	24
Typhoid fever	5	Diphtheria	37
Whooping cough	47	Influenza	191
NEW MEXICO		Measles	20
Chicken pox		Mumps	39
Conjunctivitis		Pneumonia ²	14 44
DiphtheriaInfluenza		Smallpox:	22
Measles		Linn County	11
Mumps		Scattering	31
Pneumonia		Tuberculosis	17
Rabies (in animals)		Typhoid fever	1
Scarlet fever		Whooping cough	20
Septic sore throat	1	Designation and a service	
		PENNSYLVANIA	
Smallpox	. 11	Anthrax—Philadelphia	1
Smallpox Tuberculosis	11 22	Anthrax—PhiladelphiaCerebrospinal meningitis:	
Smallpox	11 22 2	Anthrax—Philadelphia Cerebrospinal meningitis: Clay Township ³	1
Smallpox Tuberculosis Typhoid fever	11 22 2	Anthrax—Philadelphia Cetebrospinal medingitis: Clay Township ³ East Pittsburgh	1
Smallpox Tuberculosis Typhoid fever Whooping cough	11 22 2	Anthrax—Philadelphia.  Cerebrospinal meningitis:  Clay Township 3  East Pittsburgh  Philadelphia.	1 1 1
Smallpox Tuberculosis Typhoid fever Whooping cough NEW YORK (Exclusive of New York City) Chicken pox	11 22 2 15	Anthrax—Philadelphia Cetebrospinal medingitis: Clay Township ³ East Pittsburgh	1 1 1
Smallpox Tuberculosis Typhoid fever Whooping cough NEW YORK (Exclusive of New York City) Chicken pox Diphtheria	11 22 2 15 413 74	Anthrax—Philadelphia Cerebrospinal meningitis: Clay Township 3 East Pittsburgh Philadelphia Chicken pox Diphtheria German measles	1 1 1 1,006
Smallpox Tuberculosis Typhoid fever Whooping cough NEW YORK (Exclusive of New York City) Chicken pox Diphtheria. German measles	11 22 2 15 413 74 267	Anthrax—Philadelphia Cerebrospinal meningitis: Clay Township 3 East Pittsburgh Philadelphia Chicken pox Diphtheria German measics Impetigo contagiosa	1 1 1 1,006 264 40
Smallpox Tuberculosis Typhoid fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox Diphtheria German measles Influenza	11 22 2 15 413 74 267 93	Anthrax—Philadelphia Cerebrospinal medingitis: Clay Township 3 East Pittsburgh Philadelphia Chicken pox Diphtheria German measles Impedigo contagiosa Malaria	1 1 1 1,006 264 40 11
Smallpox Tuberculosis Typhoid fever Whooping cough NEW YORK (Exclusive of New York City) Chicken pox Diphtheria. German measles Influenza. Measles	11 22 2 15 413 74 267 93	Anthrax—Philadelphia Cerebrospinal meuingitis: Clay Township 3 East Pittsburgh Philadelphia Chicken pox Diphtheria German measles Impetigo contagiosa Malaria Measles	1 1 1 1, 006 264 40 11 1 3, 258
Smallpox Tuberculosis Typhoid fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox Diphtheria German measles Influenza Measles Mumps	11 22 2 15 413 74 267 93 1,207	Anthrax—Philadelphia Cerebrospinal meningitis: Clay Township 3 East Pittsburgh Philadelphia Chicken pox Diphtheria German measles Impetigo contagiosa Malaria Measles Mumps	1 1 1 1,006 264 40 11
Smallpox Tuberculosis Typhoid fever Whooping cough NEW YORK (Exclusive of New York City) Chicken pox Diphtheria. German measles Influenza. Measles	11 22 2 15 413 74 267 93 1,207 157	Anthrax—Philadelphia Cerebrospinal meuingitis: Clay Township ³ East Pittsburgh Philadelphia Chicken pox Diphtheria German measles Impetigo contagiosa Malaria Measles Mumps Ophthalmia neonatorum:	1 1 1,006 264 40 11 1 3,258 206
Smallpox Tuberculosis Typhoid fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox Diphtheria. German measles Influenza. Measles Mumps Ophthalmia neonatorum Pneumonia. Poliomyelitis	11 22 2 15 413 74 267 93 1,207 157 1 1319	Anthrax—Philadelphia Cerebrospinal meningitis: Clay Township 3 East Pittsburgh Philadelphia Chicken pox Diphtheria German measles Impetigo contagiosa Malaria Measles Mumps	1 1 1 1, 006 264 40 11 1 3, 258
Smallpox Tuberculosis Typhoid fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmis neonatorum Pneumonia Poliomyelitis Scarlet fever	11 22 2 15 413 74 267 93 1,207 157 1 157 2 296	Anthrax—Philadelphia Ceiebrospinal medingitis: Clay Township 3 East Pittsburgh Philadelphia Chicken pox Diphtheria Germen measles Impetigo contagiosa Malaria Measles Mumps Ophthalmia neonatorum: Oxford Philadelphia	1 1 1,006 264 40 11 1 3,258 206
Smallpox Tuberculosis Typhoid fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Poliomyelitis Scarlet fever Septic sore throat	11 22 2 15 413 74 267 93 1,207 157 1319 2 296	Anthrax—Philadelphia Ceiebrospinal medingitis: Clay Township 3 East Pittsburgh Philadelphia. Chicken pox Diphtheria German measles Impetigo contaglosa. Malaria Measles Mumps Ophthalmia meonatorum: Oxford. Philadelphia. Pneumonia Pohomyehtis	1 1 1,006 264 40 11 1 3,258 206
Smallpox Tuberculosis Typhoid fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Poliomyelitis Scarlet fever Septic sore throat Smallpox	11 22 2 15 413 74 267 93 1,207 157 1 319 2 266 3 3 2 2	Anthrax—Philadelphia Ceiebrospinal medingitis: Clay Township 3 East Pittsburgh Philadelphia Chicken pox Diphtheria German measles Impedigo contagiosa Malaria Measles Mumps Ophthalinia neonatoruni: Oxford Philadelphia Pneumonia Pohomychtis Scabies	1 1 1, 006 264 40 11 1 3, 258 206 1 6 96 1
Smallpox Tuberculosis Typhoid fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Poliomyelitis Scarlet fever Septic sore throat Smallpox Trachoma	11 22 2 15 413 74 267 93 1,207 157 1 319 2 296 3 3	Anthrax—Philadelphia Cerebrospinal meuingitis: Clay Township 3 East Pittsburgh Philadelphia Chicken pox Diphtheria Germen measles Impetigo contagiosa Mularia Measles Mumps Ophthalma neonatorum: Oxford Philadelphia Pneumonia Pohomyehtis Scabies Scarlet fever	1 1 1,006 264 40 11 1 3,258 206 1 6 96 1 18 658
Smallpox Tuberculosis Typhoid fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Poliomyelitis Scarlet fever Septic sore throat Smallpox Trachoma Typhoid fever Vincent's angina	11 22 2 15 413 74 267 93 1,207 157 1 157 2 296 3 3 2 2 2 2 177	Anthrax—Philadelphia Ceiebrospinal meuingitis: Clay Township 3 East Pittsburgh Philadelphia Chicken pox Diphtheria German measles Impetigo contagiosa Malaria Measles Mumps Ophthalmia neonatorum: Oxford Philadelphia Pneumonia Polomychtis Scables Scarlet fever Smallpox	1 1 1, 006 264 40 11 1 3, 258 206 1 6 96 1
Smallpox Tuberculosis Typhoid fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Poliomyelitis Scarlet fever Septic sore throat Smallpox Trachoma Typhoid fever Vincent's angina	11 22 2 15 413 74 267 93 1,207 157 1 157 2 296 3 3 2 2 2 2 177	Anthrax—Philadelphia Ceiebrospinal medingitis: Clay Township 3 East Pittsburgh Philadelphia Chicken pox Diphtheria German measles Impetigo contagiosa Malaria Measles Mumps Ophthalmia neonatorum: Oxford Philadelphia Pneumonia Pohomyelitis Scables Scarlet fever Smallpox Tetanus:	1 1 1 1,006 264 40 11 1 3,258 206 1 6 96 1 18 658
Smallpox Tuberculosis Typhoid fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Poliomyelitis Scarlet fever Septic sore throat Smallpox Trachoma Typhoid fever Vincent's angina Whooping cough	111 222 15 4133 74 4267 . 93 1,207 . 157 . 1 . 319 . 2 . 296 . 3 2 . 2 . 2 . 17 . 7 . 452	Anthrax—Philadelphia Ceiebrospinal medingitis: Clay Township 3 East Pittsburgh Philadelphia Chicken pox Diphtheria German measles Impetigo contagiosa Malaria Measles Mumps Ophthalinia neonatoruni: Oxford Philadelphia Pneumonia Pohomychtis Scabies Scarlet fever Smallpox Tetanus: Ambridge	1 1 1,006 264 40 11 1 3,258 206 1 6 96 1 18 658 1
Smallpox Tuberculosis Typhoid fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox Diphtheria. German measles Influenza. Measles Mumps Ophthalmia neonatorum. Pneumonia. Poliomyelitis Scarlet fever Septic sore throat. Smallpox Trachoma Typhoid fever. Vincent's angina Whooping cough  NORTH CABOLINA Chicken pox	111 222 15 4133 74 413 74 75 75 75 75 75 75 75 75 75 75 75 75 75	Anthrax—Philadelphia Ceiebrospinal meuingitis: Clay Township 3 East Pittsburgh Philadelphia Chicken pox Diphtheria Germen measles Impetigo contagiosa Malaria Measles Mumps Ophthalmia neonatorum: Oxford Philadelphia Pneumonia Pohomyeltis Scables Scarlet fever Smallpox Tetanus: Ambridgo Philadelphia Trachoma—Philadelphia	1 1 1,006 264 40 11 1 3,258 206 1 6 96 1 1 18 658
Smallpox Tuberculosis Typhoid fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Poliomyelitis Scarlet fever Septic sore throat Smallpox Trachoma Typhoid fever Vincent's angina Whooping cough  NORTH CABOLINA Chicken pox Diphtheria	11 22 25 15 413 74 267 93 1,207 157 1 319 2 296 2 27 17 452 218 27 218 27 218 27 218 27 218 27 218 27 218 27 218 27 218 27 218 27 218 27 218 27 218 27 27 218 27 218 27 218 27 218 27 218 27 27 27 27 27 27 27 27 27 27 27 27 27	Anthrax—Philadelphia Ceiebrospinal meuingitis: Clay Township 3 East Pittsburgh Philadelphia Chicken pox Diphtheria German measles Impetigo contagiosa Malaria Measles Mumps Ophthalinia neonatoruni: Oxford Philadelphia Pneumonia Polomychtis Scabies Scarlet fever Smallpox Tetanus: Ambridge Philadelphia Trachoma—Philadelphia Trachoma—Philadelphia Trachoma—Philadelphia	1 1 1,006 264 40 11 1 3,258 206 1 6 96 1 18 658 1
Smallpox Tuberculosis Typhoid fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox. Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Poliomyelitis Scarlet fever Septic sore throat Smallpox Trachoma Typhoid fever Vincent's angina Whooping cough  North Carolina Chicken pox. Diphtheria German measles	111 222 15 15 15 16 16 17 17 18 17 18 17 18 17 17 18 17 17 17 18 17 17 17 17 18 17 17 17 17 18 17 17 17 17 17 17 17 17 17 17 17 17 17	Anthrax—Philadelphia Ceiebrospinal meuingitis: Clay Township 3 East Pittsburgh Philadelphia Chicken pox Diphtheria German measles Impetigo contagiosa Malaria Measles Mumps Ophthalinia neonatoruni: Oxford Philadelphia Pneumonia Pohomyehtis Scables Scarlet fever Smallpov Tetanus: Ambridge Philadelphia Trachoma—Philadelphia Truberculosis Typhoid fever	1 1 1 1,006 264 40 11 11 3,258 206 1 6 96 1 18 658 1
Smallpox Tuberculosis Typhoid fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Poliomyelitis Scarlet fever Septic sore throat Smallpox Trachoma Typhoid fever Vincent's angina Whooping cough  NORTH CABOLINA Chicken pox Diphtheria German measles Measles	111 222 15 4133 74 4 267 . 93 1,207 . 157 . 1 296 . 2 2 296 . 2 2 177 . 7 462 218 . 27 6 33 . 290	Anthrax—Philadelphia Ceiebrospinal meuingitis: Clay Township 3 East Pittsburgh Philadelphia Chicken pox Diphtheria German measles Impetigo contagiosa Malaria Measles Mumps Ophthalinia neonatoruni: Oxford Philadelphia Pneumonia Polomychtis Scabies Scarlet fever Smallpox Tetanus: Ambridge Philadelphia Trachoma—Philadelphia Trachoma—Philadelphia Trachoma—Philadelphia	1 1 1 1,006 264 40 11 11 3,258 206 1 6 96 1 18 658 1
Smallpox Tuberculosis Typhoid fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Poliomyelitis Scarlet fever Septic sore throat Smallpox Trachoma Typhoid fever Vincent's angina Whooping cough  NORTH CABOLINA Chicken pox Diphtheria German measles Measles Measles Poliomyelitis	111 222 2 15 15 413 74 4 13 3 74 4 13 3 11 20 15 15 15 15 15 15 15 15 15 15 15 15 15	Anthrax—Philadelphia Ceiebrospinal meuingitis: Clay Township 3 East Pittsburgh Philadelphia Chicken pox Diphtheria German measles Impetigo contagiosa Malaria Measles Mumps Ophthalinia neonatoruni: Oxford Philadelphia Pneumonia Pohomyehtis Scables Scarlet fever Smallpov Tetanus: Ambridge Philadelphia Trachoma—Philadelphia Truberculosis Typhoid fever	1 1 1 1,006 264 40 11 11 3,258 206 1 6 96 1 18 658 1
Smallpox Tuberculosis Typhoid fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox. Diphtheria German measles. Influenza. Measles. Mumps Ophthalmia neonatorum. Pneumonia. Poliomyelitis. Scarlet fever. Septic sore throat. Smallpox. Trachoma. Typhoid fever. Vincent's angina. Whooping cough  North Carolina Chicken pox. Diphtheria. German measles. Measles. Poliomyelitis. Scarlet fever. Spanta Spanta Carolina Chicken pox. Diphtheria. German measles. Measles. Poliomyelitis. Scarlet fever. Smallpox.	111 222 2 15 413 319 2 2 2 206 3 3 2 2 2 2 177 452 218 277 290 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Anthrax—Philadelphia Ceiebrospinal meuingitis: Clay Township 3 East Pittsburgh Philadelphia Chicken pox Diphtheria German measles Impedigo contagiosa Malaria Measles Mumps Ophthalmia neonatorum: Oxford Philadelphia Pneumonia Pohomychtis Scabies Scarlet fever Smallpo Tetanus: Ambridge Philadelphia Trachoma—Philadelphia Truberculosis Typhoid fever Whooping cough  RHODE ISLAND Chicken pox	1 1 1 1,006 264 40 11 13,258 206 1 6 96 1 18 658 1 1 12 1 106 22 441
Smallpox Tuberculosis Typhoid fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox Diphtheria German measles Influenza Measles Mumps Ophthalmia neonatorum Pneumonia Poliomyelitis Scarlet fever Septic sore throat Smallpox Trachoma Typhoid fever Vincent's angina Whooping cough  NORTH CAEOLINA Chicken pox Diphtheria German measles Measles Poliomyelitis Scarlet fever Vincent's angina Whooping cough  NORTH CAEOLINA Chicken pox Diphtheria German measles Measles Poliomyelitis Scarlet fever Smallpox Typhoid fever Smallpox	111 222 15 15 15 16 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	Anthrax—Philadelphia Ceiebrospinal meuingitis: Clay Township 3 East Pittsburgh Philadelphia. Chicken pox Diphtheria German measles Impetigo contagiosa. Malaria Measles Mumps Ophthalmia neonatorum: Oxford Philadelphia. Pneumonia Pohomyehtis Scabies Scarlet fever Smallpo Tetanus: Ambridgo Philadelphia Trachoma—Philadelphia Trachoma—Philadelphia Tuberculosis Typhoid fever Whooping cough  RHODE ISLAND Chicken pox Diphtheria	1 1 1 1, 006 264 40 11 1 3, 258 206 1 658 1 1 1 2 1 106 22 441
Smallpox Tuberculosis Typhoid fever Whooping cough  NEW YORK (Exclusive of New York City) Chicken pox. Diphtheria German measles. Influenza. Measles. Mumps Ophthalmia neonatorum. Pneumonia. Poliomyelitis. Scarlet fever. Septic sore throat. Smallpox. Trachoma. Typhoid fever. Vincent's angina. Whooping cough  North Carolina Chicken pox. Diphtheria. German measles. Measles. Poliomyelitis. Scarlet fever. Spanta Spanta Carolina Chicken pox. Diphtheria. German measles. Measles. Poliomyelitis. Scarlet fever. Smallpox.	111 222 15 15 15 16 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	Anthrax—Philadelphia Ceiebrospinal meuingitis: Clay Township 3 East Pittsburgh Philadelphia Chicken pox Diphtheria German measles Impedigo contagiosa Malaria Measles Mumps Ophthalmia neonatorum: Oxford Philadelphia Pneumonia Pohomychtis Scabies Scarlet fever Smallpo Tetanus: Ambridge Philadelphia Trachoma—Philadelphia Truberculosis Typhoid fever Whooping cough  RHODE ISLAND Chicken pox	1 1 1 1, 006 264 40 11 1 3, 258 206 1 658 1 1 1 2 1 106 22 441

RHODE ISLAND—continued		VERMONT—continued	
KHODE ISLAND—Continued	Cases	VERMONT—Continued	Cases
Influenza	3	Mumps	5
Measles	416	Scarlet fever	24
Mumps	1	Whooping cough	44
Pneumonia	4	VIRGINIA	
Scarlet fever	6	Smallpox	2
Tuberculosis	7	WASHINGTON	
Whooping cough	15	Cerebrospinal meningitis—Spokane	5
SOUTH DAKOTA		Chicken pox	120
		Diphtheria	13
Cerebrospinal meningitis	1	German measles	31
Chicken pox	5	Influenza	3
Diphtheria	3	Measles	23
Measles	4	Mumps	143
Pneumonia	1	Pneumonia	2
Scarlet fever	51 7	Scarlet fever Smallpox.	95
Smallpox	1	Pierce County	26
Typhoid feverWhooping cough	3	Seattle	15
		Tacoma	18
TENNESSEE		Scattering	68
Chicken pox	71	Tuberculesis	42
Diphtheria	19	Typhoid fever	
Influenza	185	Whooping cough	56
Malaria	6	WEST VIRGINIA	
Measles		Diphtheria	7
Mumps	50	Scarlet fever	21
Ophthalma neonatorum Pellagia	4	Typhoid fever-Hinton	4
Pneumonie	3 147	WISCONSIN	
Scarlet fever	30	Milwaukce.	
Smallpox	11	Chicken pov.	107
Tuberculosis	43	Diphtheria	22 2
Typhoid fever	9	German measics	2
Whooping cough	17	Measles	14
TEXAS		Mumps	15
Chicken pox	67	Pneumonia	17
Diphtheria	41	Scarlet fever	36
Influenza	634	Tuberculosis	25
Measles.	10	Whooping cough	68
Mumps	21	Scattering:	
Pellagra	2 79	Cerebrospinal meningitis	1
Poliomyehtis	2	Chicken pov	199
Scarlet fever	38	Diphtheria	46
Septic sore throat	7	German mens'es	15
Smallpox	67	Influenza	45
Trachoma.	1	Measles	239 126
Tuberculosis	32	Pneumonia	
Typhoid fever	2	Polio nyelitis	
Whooping cough	34	Scarlet fever	163
UTAH		Smallpoy	13
Chicken pox	70	Tuberculosis	11
Diphtheria	17	Typhoid fever	2
Influenza	79	Whooping cough	143
Measles	4	WYOMING	
Mumps	32	Chicken pox	6
Pneumonia		German measles	2
Scarlet fever		Measles	
Smallpox		Mumps	
Whooping cough	35	Pneumonia	
VERMONT		Scarlet fever	
Chicken pox		Tuberculosis	
Diphtheria		Typhoid fever	
Measles	5	i moobiid codeii	. •

4 Incomplete report.

## Report for Week Ended February 6, 1926

NORTH DAKOTA	Cases	NORTH DIROTA—continued	Cases
Chieken pox	2	Poliomyelitis	3
Diphtheria		Scarlet fever	83
German measles	60	Smallpox	9
Measles	11	Tuberculosis	4
Mumps	53	Typhoid fever	1
Pneumonia	22	Whooping coulth	19

#### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Cere- bro- spinal menin- gitis	Dıph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
December, 19.25  Alahama. Hawaii Territory. Illinois. Jowa. Oklahoma ¹	1 1 26 1 3	117 35 540 133 157	324 9 959 497	52 33 62	14 38 868 77 16	17	2 11 5 1	74 4 1, 755 216 160	61 1 137 90 30	70 5 297 23 119
January, 1926 Arizona	1 17 2	29 186 391 206	38 57	i	2, 600 6, 573 383	1	1 6 1	04 338 1, 289 249	1 0 0 156	5 13 27 23

¹ Exclusive of Tulsa and Oklahoma City.

## PLAGUE-ERADICATIVE MEASURES IN THE UNITED STATES

The following items were taken from the reports of plague-eradicative measures from the cities named:

Los Angeles, Calif.	
Week ended Jan. 30, 1926:  Number of rats trapped	2, 631 0 832 0 2, 897 0
Oakland, Calif.	
(Including other East Bay communities)	
Week ended Jan. 30, 1926: Number of rats trapped	414

Number of rats found to be plague infected......

0

#### Totals:

Number of rats trapped Jan. 1, 1925, to Jan. 30, 1926	81, 127
Number of rats found to be plague infected	21
Number of squirrels examined May 1 to Aug. 1, 1925	7,277
Number of squirrels found to be plague infected	0
Number of mice trapped Jan. 1, 1925, to Jan. 30, 1926	31, 837
Date of discovery of last plague-infected rat, Mar. 4, 1925.	
Date of last human case, Sept. 10, 1919.	

#### GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended January 30, 1926, 37 States reported 1,348 cases of diphtheria. For the week ended January 31, 1925, the same States reported 1,625 cases of this disease. One hundred cities, situated in all parts of the country and having an aggregate population of about 29,900,000, reported 813 cases of diphtheria for the week ended January 30, 1926. Last year for the corresponding week they reported 890 cases. The estimated expectancy for these cities was 1,137 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-four States reported 10,827 cases of measles for the week ended January 30, 1926, and 2,233 cases of this disease for the week ended January 31, 1925. One hundred cities reported 7,944 cases of measles for the week this year, and 1,163 cases last year.

Poliomyelitis.—The health officers of 38 States reported 24 cases of poliomyelitis for the week ended January 30, 1926. The same States reported 16 cases for the week ended January 31, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-seven States—this year, 3,972 cases; last year, 3,990 cases; 100 cities—this year, 1,649 cases; last year, 1,844 cases; estimated expectancy, 1,243 cases.

Smallpox.—For the week ended January 30, 1926, 37 States reported 916 cases of spox. Last year for the corresponding week they reported 1,223 cases. One hundred cities reported smallpox for the week as follows: 1926, 234 cases; 1925, 370 cases; estimated expectancy, 120 cases. Ten deaths from smallpox were reported by these cities for the week this year—at Los Angeles, Calif.

Typhoid fever.—Two hundred and eight cases of typhoid fever were reported for the week ended January 30, 1926, by 36 States. For the corresponding week of 1925, the same States reported 267 cases of this disease. One hundred cities reported 45 cases of typhoid fever for the week this year and 98 cases for the corresponding week last year. The estimated expectancy for these cities was 57 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 93 cities, with a population of about 29,200,000, as follows: 1926, 1,245 deaths; 1925, 1,204.

# City reports for week ended January 30, 1926

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

			Diphi	theria	Influ	enza			_
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine: Portland New Hampshire:	75, 333	3	2	. 0	0	0	8	3	3
Concord Manchester Vermont:	22, 546 83, 097	0	0 2	0	0	0	4 0	0	0
Barre Burlington Massachusetts:	10, 008 24, 089	0 2	0	0	0	1 0	0	0	1
Boston Fall River Springfield Worcester Rhode Island:	779, 620 128, 993 142, 065 190, 757	115 4 8 0	67 6 5 6	19 5 0 8	1 0 0	1 2 0 0	158 65 76 96	18 1 0 2	29 2 1 6
Pawtucket Providence Connecticut:	69, 760 267, 918	0	1 12	2 5	0	0 2	57 491	0	0 7
Bridgeport Hartford New Haven	(1) 160, 197 178, 927	5 11 60	9 8 5	3 7 0	0 1 4	0 1 0	83 50 76	0 0 1	1 5 6
MIDDLE ATLANTIC					1				
New York: Buffalo New York Rochester Syracuse New Jersey:	5, 873, 356 316, 786	20 328 16 26	19 228 9 9	10 143 22 3	0 38 0 0	0 18 0 0	9 1, 694 65 24	3 41 1 27	15 231 6 5
Camden Newark Trenton Pennsylvania:	128, 642 452, 513 132, 020	28 88 4	5 22 7	0 6 1	2 6 3	2 0 3	49 186 6	0 2 0	11 19 5
Philadelphia Pittsburgh Reading	631, 563	198 51 8	79 22 5	57 19 0	ō	10 4 0	317 25 6	11 5 3	108 34 3
LAST NORTH CENTRAL									
Ohio: Cincinnati Cleveland Columbus Toledo Indiann:	279, 836 287, 380	12 73 15 23	11 35 4 8	10 46 7 3	0 0 0	6 1 4 3	1, 553 52 50	0 3 0 0	10 20 9 6
Fort Wayne	358, 819 80, 091	1 6 5 3	13 1 1	1 7 0 1	0 0 0 0	1 2 0 0	331 1 2	0 0 0	13 0 2
Chicago Peoria Springfield	2, 995, 239 81, 564 63, 923	160 1 6	117 0 2	54 0 0	7 0 2	1 1	61 .0 1	24 19 5	62 2 3

¹ No estimate made.

# City reports for week ended January 30, 1926—Continued

		G1. 11.	Diph	theria	Influ	ienza	3.5		Descri
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Measles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
EAST NORTH CENTRAL— continued									
Michigan: Detroit Flint Grand Rapids Wisconsin:	1, 245, 824 130, 316 153, 698	97 10 9	67 8 4	46 1 0	6 0 1	0 0 2	1,017 11 9	7 11 0	94 2 2
Madison	46, 385 509, 192 67, 707 39, 671	11 110 7 0	1 20 1 1	0 28 0 1	. 0 0 0	0 0 0	14 10 0 0	33 2 0	1 21 1 2
WEST NORTH CENTRAL				l					
Minnesota: Duluth Minneapolis St. Paul Iowa:	110, 502 425, 435 246, 001	10 62 32	2 21 14	1 27 12	0	0 1 2	6 10 9	6 1 2	0 7 14
Davenport Des Moines Sioux City Waterloo Missouri	(1) (1) (1) 36, 771	1 1 3 8	1 3 1 1	1 2 1 2	0 0 0		0 5 1 1	0 0 1 0	
Kansas City St. Joseph St. Louis North Dakota:	367, 481 78, 342 821, 543	72 2 30	10 3 50	11 0 63	3 0 0	3 0	91 0 10	3 0 7	9 8 
Fargo Grand Forks South Dakota:	26, 403 14, 811	6 2	0	0	0	0	9	31 0	1
Aberdeen Sioux Falls	15, 036 30, 127	0	0	0	0		7	55 0	
Nebraska: Lincoln Omaha	60, 941 211, 768	11 9	3 5	1 2	0	0	0	0	0 7
Kansas: Topeka Wichita	55, 411 88, 367	4 10	2 4	1 4	0	0	1 0	1 1	2 4
SOUTH ATLANTIC									
Delaware: Wilmington	122, 049	14	2	3	0	. 0	79	0	6
Maryland Baltimore Cumberland	796, 296 33, 741	114 0	30	16 0	949	8	961 5	111	69 2
District of Columbia:	12,035	Ŏ	0	0	Ō	0	5	Ŏ	. 0
Washington Virginia:	497, 906	41	18	20	6	2	32	2	20
Lynchburg Norfolk Richmond	30, 395 (1) 186, 403	22 8 9	1 2 5	2 1 4	0	0 0 2	3 7	1 1 9	1 7 8
Roanoke	98, 208	3	2	5	0	0	12	1	0
Charleston Huntington Wheeling North Carolina:	49, 019 63, 485 56, 208	1 1 3	1 1 1	1 3 0	0 0	0 0	0 2 2	0 0	2 0 5
Raleigh Wilmington Winston-Salem South Carolina:	30, 371	5 4 7	0 1	0 0	0 0	0 0	3 0 87	0 0 3	3 1 3
Charleston Columbia Greenville	73, 125 41, 225 27, 311	0 2 2	1 1 0	0 0 1	0 0	0 0	0	O	3 0 0
Georgia: Atlantu Brunswick Savannah	(¹) 16, 809	3 1 1	3 0 1	5 0 2	75 0 72	1 0 2	9 0 2	0	12 0 6
Florida: St. Petersburg Tampa	26, 847 94, 743	0 8	0	0 2	0	0	0	0	2 3
4 4 7									

¹ No estimate made.

City reports for week ended January 30, 1926-Continued

			Diphi	theria	Influ	enza			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases te- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deuths re- ported
EAST SOUTH CENTRAL									
Kentucky: Covington Louisville Tennessee:	58, 309 305, 935	0 6	1 8	0	0 5	0	0 4	0	3 6
Memphis Nashville	174, 533 136, 220	12 5	5 1	4 3	0	3 3	3 60	1 0	5 11
Alabama: Birmingham Mobile Montgomery	205, 670 65, 955 46, 481	24 1 0	3 0 1	0 0 0	22 0 0	6 1 0	3 0 0	4 0 16	13 2 0
WEST SOUTH CENTRAL									
Arkansas: Fort Smith Little Rock Louisiana:	31, 643 74, 216	4 1	1	1 1	0 2		0	0	3
New Orleans Shreveport Oklahoma: Oklahoma City	414, 493 57, 857	5 2 1	14	8 0 0	90 0 6	26 2 0	2 1 0	0 1	26 7 4
Texas: DallasGalveston	194, 450 48, 375 164, 954	36 0	6	7 2	15 0	1 0	3 0	0	15 7 16 20
HoustonSan Antonio	164, 954 198, 069	1	2	11 3	9	1 2	0	0	16 20
MOUNTAIN									
Montana: Billings Great Falls Helena Missoula	17, 971 29, 883 12, 037 12, 668	3 4 0 2	1 1 0 0	0 0 0 2	0 0	0 0 0	0 0 0	6 35 0	1 1 0 1
Idahe: Boise	23, 042	2	0	0	0	0	0	0	0
Denver Pueblo Now Mexico:	280, 911 43, 787	32 5	11 3	18 4	0	1 0	10	5 0	6 4
Albuquerque Arizona:	21,000	3	0	1	0	0	0	3	1
Phoenix Utah: Salt Lake City	38, 669	39	3	1 4	0	0 7	0	0 18	3 5
Nevada: Reno	12, 665	0	0	1	0	0	0	O	0
PACIFIC									
Washington: Seattle Spokane Tacoma	(1) 108, 897 104, 455	60 15 2	7 5 2	2 0 4	0 0	0	8 0 0	143 0 0	4
Oregon: PortlandCalifornia:	282, 383	6	8	7	3	0	0	7	15
Los Angeles Sacramento San Francisco	72, 260 557, 530	59 3 32	46 3 25	39 •2 15	89 1 16	3 6 13	9 0 10	12 0 5	29 4 12

¹ No estimate made.

City reports for week ended January 30, 1928-Continued

		·									
	Scarle	t fever	1	Smallpo	X	Tuber-	Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ough, cases re- ported	Deaths, all causes
NEW ENGLAND											
Maine: Portland New Hampshire:	2	8	0	0	0	0	0	1	0	4	17
Concord Manchester	0 3	0 16	0	0	0 0	0	0	0	0 0	0	12 21
Vermont: Barre Burlington	1	6	0	0	0	1 0	0	0	0	0	8 8
Massachusetts: Boston Fall River	54 3	97 1	0	0	0	16 4	1 1	1 0	0	175 7	235 44
Worcester Rhode Island:	10	9	0.	0	0	1	0	0	0	16	41 56
Pawtucket Providence Connecticut:	9	10	0	0	0	1 2	0	0	0	5 4	19 76
Bridgeport Hartford New Haven	8 7 10	17 0 17	0 0 0	0 0 0	0 0 0	0 3 0	0 0 0	0 2 0	0 0 0	6 3 19	33 40 46
MIDDLE ATLANTIC											
New York: Buffalo New York Rochester Syracuse	22 234 13 16	27 195 28 0	1 1 0	0 0 0	0 0	10 1 104 3 2	10 1 1	5 11 0 1	1 0 0 0	24 54 9 69	126 1,524 73 38
New Jersey: Camden Newark Trenton		16 25 6	0 0 0	0 0 2	0 0	0 8 2	0 0	1 0 0	1 0 0	23 0	46 120 45
Pennsylvania: Philadelphia Pittsburgh Reading	70 33 1	96 70 9	1 0 0	0 0 0	0 0	53 12 0	3 1 1	1 0 0	2 0 0	49 33 10	636 183 27
EAST NORTH CENTRAL											
Ohio: Cincinnati Cloveland Columbus Toledo Indiana:		24 40 11 14	1 2 1 3	1 4 1 0	0 0 0	16 14		2 1 0 0	0000	89	189 81
Fort Wayne Indianapolis South Bend Terre Haute Illinois;	. 3	7 17 4 5	1 6 1 1	0 45 12 0	0000		0	000	0000	25 0	110 10
Peoria Peoria Springfield Michigan:	- 6	133 3 2	3 0 0	0 1 0	000	1	0	0 0 1	0 0 1	1	21
Detroit Flint Grand Rapids Wisconsin:	97 9 11	123 6 29	4 2 0	0	. 0	0	0	0 0	0	26	18
Madison Madison Milwaukee Racine Superior	. 7	8 27 1 3	0 2 1 4	0	000	6	0	0	0	63	103 11

¹ Pulmonary tuberculosis only.

City reports for week ended January 30, 1926-Continued

	Scarlet	fever		Smallpo	x	Tuber-	Ту	phoid fo	ever	Whoop-	
Division, State, and city	Cases, csti- muted expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis,	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST NORTH CENTRAL											
Minnesota: Duluth Minneapolis St. Paul Iowa:	5 44 27	29 74 54	1 16 9	0 0 0	0 0 0	0 4 2	1 1 1	0 0 1	0 0 0	11 5 19	23 92 71
Davenport Des Moines Sioux City Waterloo Missouri:	2 7 2 2	1 4 3 4	2 3 1 0	0 1 11 0			0 0	0 0 0		0 0	
Kansas City St. Joseph St. Louis North Dakota:	14 3 38	27 1 111 3	2 0 4	0 1 4	0	5 0 8	0 0 1	0 0	0 0	25 2 5	91 36 226
Fargo	1 1	0	0	0	0	0	. 0	0	0	0	2
Sioux Falls Nebraska: Lincoln Omaha	2 2 5	0 14	0 0 6	0 0 11	0	0		0	0	4	15 59
Kansas: Topeka Wichita	1 1	4 6	0	0	0	0 2	0	0	0	2 0	18 34
SOUTH ATLANTIC											
Delaware: Wilmington	_ 3	5	0	O	0	2	0	0	0	6	35
Maryland: Baltimore Cumberland Frederick	- 40 1	. 1 . 0	) C	i o	1 0	1	0 0		0	41 0 0	331 14 5
District of Col.: Washington	_ 23	1			1	ļ.	į	1	0	7	145
Virginia: Lynchburg Norfolk Richmond	- Q	3	) (	0	0	1 2	0	0	0	2	8
Roanoke West Virginia: Charleston	1   1					i i	) 1	o	0	0 4	9
Huntington Wheeling North Carolina:	1	. (		) (	· C		1 (	0	0	0	17
Raleigh Wilmington - Winston-Saler South Carolina:	n g			) (	1 6	) (	) (	0	0 0	0 4 5	11 14 26
Charleston Columbia Greenville Georgia:	-	)   1		1 (	1 (	) (	)   0	0	0 0	5 0 2	29
Atlanta Brunswick Savannah	-		) (			) (	) 0	0	0	2 0 0	71 4 34
Florida: St. Petersbur Tampa	g.			0 2				0 3	0	0	10 32
EAST SOUTH CENTRAL											
Kentucky: Covington Louisville		1 5		0 (				0 2	0	0 4	25 72
Memphis Nashville		4	9	3 2		) 8	. 0	0	1 1 0	0	73 57
Alabama: Birmingham Mobile Montgomery		0	0	3 2			1	0	0	11	67 27

# City reports for week ended January 30, 1926-Continued

	Scarle	t fever		Smallpo	x	Tuber-	Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST SOUTH CENTRAL											
Arkansas: Fort Smith Little Rock Louisiana:	1 2	0 4	0	0	0		0	0 1	0	1 0	
New Orleans Shreveport	4 0	6 0	1 4	2 3	0	9	3 0	2 0	2 0	0	213 42
Oklahoma: Oklahoma City Texas	2	2	3	0	0	0	0	0	0	0	17
Dallas Galveston Houston San Antonio	3 0 1 1	3 2 1 0	0 0 0	3 2 19 0	0 0 0 0	4 0 7 8	1 0 0 1	1 0 0 0	0 0 0	18 0 1 0	58 18 59 69
MOUNTAIN											
Montana: BillingsGreat Falls HelenaMissoula	1 1 1 1	1 15 0 1	0 2 0 0	0 9 0	0 0 0	1 0 0 0	0 0 0	0 0 0	0 0 0 0	1 6 0 0	7 7 5 5
Idaho: Boise Colorado:	1	0	0	1	0	0	0	0	0	0	7
Denver Pueblo New Mexico:	12 2	8 1	3 0	1 0	0	3 1	1 0	1 0	1 0	69 0	76 14
Albuquerque Arizona:	1	8	0	0	0	4	0	0	0	11	10
Phoenix Utah:	0	1	0	0	0	4	0	0	0	0	10
. Salt Lake City. Nevada:	4	2	4	0	0	3	0	1	0	13	53
Reno	0	0	1	0	0	0	0	0	0	0	4
PACIFIC  Washington: Seattle Spokane Tacoma Oregon:	11 3 3	35 15 3	4 5 2	4 0 28	0	0	0 0 1	0	0	. 4 1 2	22
Portland California:	6	18	11	10	0	2	0	1	0	0	
Los Angeles Sacramento San Francisco	18 1 15	49 3 19	1 3	40 2 2	10 0 0	32 1 8	1 1	3 0 1	0 0	13 0 4	296 29 181

# City reports for week ended January 30, 1926-Continued

Bridge Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the	Cerebre menir	spinal igitis	Leth encepl	argie nalitis	Pells	agra	Polion tile	nyelitis ( paralys	infan- is)
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expert- ancy	Cases	Deaths
NEW ENGLAND									
Massachusetts: Springfield Rhode Island: Providence	1 0	1 0	0	0	0	0	0	0	0
MIDDLE ATLANTIC						Ì			
New York: Buffalo. New York. Pennsylvania: Pittsburgh.	2 2 1	0 2 0	0 7 0	2 1 0	000	0 0 0	0 1	0 1 0	0 0
EAST NORTH CENTRAL							1		
Ohio: ClevelandIndiana:	1	0	0	0	0	0	0	0	0
Indianapolis	0	1	1	0	0	0	1	1	0
Chicago Michigan: Detroit	0	0	1	0	0	0	0	0	0
WEST NORTH CENTRAL				1					
Missouri St. Louis	. 1	0	0	0	0	0	6	0	0
SOUTH ATLANTIC									
Maryland: Baltimore South Carolina:	. 0	1	0	ł	1	0	0	0	0
Charleston Georgia:	. 0		1			1	0	0	0
Atlanta Savannah	- 0			8		0	0	0	ő
EAST SOUTH CENTRAL									
Tennessee: Memphis	_ 0	0		1	0	0	0	ø	0
Alabama: Birmingham	- 0	) 0	0	0	1	0	0	0	0
WEST SOUTH CENTRAL					į				
Arkansas: Little Rock	_ (	) 1	.   (	0	0	1	0	0	0
Louisiana: New Orleans Shreveport	- 6					2	0	0	0
Texas: Dallos	_ (					1	0	0	0
Houston San Antonio	- 8	8 8	3 8	0		1	0	0	ő
MOUNTAIN Utah: Salt Lake City		. (		0	0	0	0	-0	1
PACIFIC							1		
Washington: Seattle Spokane		1 (				0	0	0	0
Oregon: Portland		1 2		0	0	0	0	0	0
California: Los Angeles San Francisco		$\begin{bmatrix} 2 \\ 0 \end{bmatrix}$		0	0	0	0	0	0

The following table gives the rates per 100,000 population for 103 cities for the five-week period ended January 30, 1926, compared with those for a like period ended January 31, 1925. The population figures used in computing the rates are approximate estimates as of July 1, 1925 and 1926, respectively, authoritative figures for many of the cities not being available. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and more than 29.750,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, December 27, 1925, to January 30, 1926-Annual rates per 100,000 population—Compared with rates for the corresponding period of 1924-25 1

<b></b>	3	DIPHT	HERIA	CASE	RATI	ES				
					Week e	nded—		•		
,	Jan. 3, 1925	Jan. 2, 1926	Jan. 10, 1925	Jan. 9, 1926	Jan. 17, 1925	Jan. 16, 1926	Jan. <b>24</b> , 1925	Jan. 23, 1926	Jan. 31, 1925	Jan. 30, 1926
103 cities	149	129	145	170	167	- 145	159	142	² 16O	3 142
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central West South Central Pacific	141 171 138	139 124 129 154 126 109 146 109 124	247 130 122 139 161 110 137 231 185	139 182 151 283 178 52 189 182 97	173 187 132 247 115 84 185 148 196	144 151 135 253 141 67 120 127 81	165 174 121 193 144 74 154 231 213	132 137 131 206 152 73 155 155 140	192 155 2 126 243 121 89 141 129 279	\$ 110 130 138 \$ 261 116 42 142 264 167
		MEA	SLES (	CASE I	RATES					
103 cities	150	601	207	1, 146	188	973	204	1, 335	204	\$ 1,384
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	120 277 10 50	2, 373 550 736 59 460 104 0 82 46	381 168 391 18 79 26 4 129 185	3,094 995 1,761 148 1,289 52 0 55 65	424 157 327 12 42 42 22 259 152	2,867 845 1,302 127 1,356 239 17 91 51	479 186 352 26 36 68 13 240 52	2, 572 1, 088 2, 068 156 2, 477 285 13 118 65	467 205 2340 20 35 84 13 277 17	4 2,845 1,185 2,088 8 113 2,280 394 26 100 73
	sc	ARLE'	r fev	ER CA	SE RA	TES				
103 cities	284	221	307	270	344	285	356	292	2 346	8 287
New England. Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	285 227 549 192 158 79 157	300 166 243 493 137 99 120 246 205	637 323 166 733 148 210 141 370 180	295 210 333 580 158 119 112 237 243	542 292 350 731 246 108 110 518 174	381 237 321 548 186 140 90 319 270	575 325 344 780 190 168 185 296 210	300 237 324 669 186 202 69 373 256	515 299 2 366 756 175 200 194 250 215	4 409 235 300 5 709 154 109 69 255 334

The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported Populations used are estimated as of July 1, 1925 and 1926, respectively.
 Racene, Wise, not included.
 Hartford, Conn., and Kansas Cuty, Mo., not included.
 Hat ford, Conn, not included.
 Kansas City, Mo., not included.

Summary of weekly reports from citics, December 27, 1925, to January 30, 1926— Annual rates per 100,000 population—Compared with rates for the corresponding period of 1924-25—Continued

#### SMALLPOX CASE RATES

		SMAL	LPOX	CASE	KATES	3	1 = 41					
					Week	ended-						
	Jan. 3, 1925	Jan. 2, 1926	Jan. 10, 1925	Jan. 9, 1926	Jan. 17, 1925	Jan. 16, 1926	Jun. 24, 1925	Jan. 23, 1926	Jan. 31, 1925	Jan. 30, 1926		
103 cities	41	23	55	33	56	47	68	35	² 65	3 41		
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Most South Central Mountain Pacific	3 25 125 36 341 31 46	0 1 22 18 24 73 22 36 148	0 3 38 213 29 362 62 28 141	0 48 65 43 47 52 36 111	0 10 37 187 58 200 31 55 202	0 2 37 51 68 57 146 18 286	0 6 45 175 35 620 31 92 199	0 0 33 36 56 47 99 27 194	0 9 2 33 189 42 599 57 46 168	4 0 1 43 6 62 58 21 125 16 205		
	TYPHOID FEVER CASE RATES											
103 cities	36	10	32	13	20	11	17	13	2 17	\$ 8		
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central West South Central Mountain Pacific	58 26 4 38 37 35 0	7 7 6 6 11 31 47 9 8	14 49 13 6 52 47 66 9 25	31 14 11 2 9 16 22 9	24 21 22 10 19 16 66 0 6	2 16 8 4 8 16 13 9	19 20 10 6 12 26 40 46 14	9 10 3 4 8 5 151 0 16	7 19 2 10 12 35 21 57 18 3	4 5 9 4 4 5 2 9 10 17 18 11		
		NFLU	ENZA	DEAT	H RAT	es						
96 cities	18	15	20	21	21	23	21	20	2 22	3 28		
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	58 48 37	12 10 8 15 19 31 43 27 39	17 20 15 13 33 42 39 18 18	9 18 12 8 15 83 47 46 57	26 18 14 2 42 42 82 28 11	14 16 11 19 23 88 80 64 46	10 20 17 19 21 58 87 9	7 14 8 10 39 57 94 18 39	26 16 2 11 15 36 68 77 37 18	4 15 18 12 5 7 36 73 151 73 78		
	1	NEUN	IONIA	DEAT	II RAT	res						
96 cities	195	184	185	220	206	211	202	199	2 108	3 194		
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	225 155 91 - 232 278 - 324 - 222	186 142 117 261 259 312 264	117 227 143 87 232 268 247 222 164	246 229 176 140 289 332 335 127 220	151 259 143 104 271 173 426 240 145	208 236 153 125 276 285 354 328 167	208 233 132 117 242 294 343 314 185	210 227 139 81 287 228 312 273 185	232 229 136 114 238 278 218 305 193	4 143 217 136 5 106 284 208 441 164 174		

Racine, Wis., not included.
 Hartford, Conn., and Kansas City Mo., not included.
 Hartford, Conn., not included.
 Kansas City, Mo., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively

Group of cities	Number of cities reporting		Aggregate of cities cases	population reporting	Aggregate of cities deaths	population reporting	
	cases	deaths	1925	1926	1925	1926	
Total	103	96	29, 944, 996	30, 473, 129	29, 251, 658	29, 764, 201	
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Pentral Pacific	12 10 16 14 21 7 8 9	12 10 16 11 21 7 6 9	2, 176, 124 10, 346, 970 7, 481, 656 2, 594, 962 2, 716, 070 993, 103 1, 184, 057 563, 912 1, 888, 142	2, 206, 124 10, 476, 970 7, 655, 486 2, 634, 667 1, 004, 953 1, 212, 057 572, 773 1, 934, 084	2, 176, 124 10, 346, 970 7, 481, 656 2, 461, 380 2, 716, 070 993, 103 1, 078, 198 563, 912 1, 434, 245	2, 206, 124 10, 476, 970 7, 655, 436 2, 499, 036 2, 776, 036 1, 004, 953 1 103, 695 572, 773 1, 460, 144	

# FOREIGN AND INSULAR

# THE FAR EAST

Report for week ended January 16, 1926.—The following report for the week ended January 16, 1926, was transmitted by the Far Eastern Bureau of the health section of the League of Nations' secretariat, located at Singapore, to the headquarters at Geneva:

	Pla	gue	Cho	lera		all- ox		Pla	gue	Cho	lera	Sm	
Port	Cases	Deaths	Cases	Deaths	Cases	Deaths	Port	Cases	Deaths	Cases	Deaths	Cases	Deaths
Bombay Madras. Rangoon Karachi Negapatam Colombo Basra. Singapore. Port Swettenham Penang. Batavia Soerabaya. Samarang Belawan Deli Padang (Sumatra) Sabang (Rhio) Macassar Sandakan (North Bornee) Manila Zamboanga. Bangkok Rockhampton Townsville Port Darwin Broome Port Moresby Auckland Wellington Christchurch Invereargili Honolulu Suez. Alexandria	100002000011000000000000000000000000000	0005 0001 0000 0000 0000 0000 0000 0000	0 0	0 6 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Saigon and Cholon Haiphong Hongkong Shanghai Amoy Nagasaki Yokohama Simonoseki Moji Kobe Osaka Niligata Tsuruga Hakodate Keelung Fusan Dairen Adelaide Brisbane Fremantle Melbourne Sydney Port Said Mombasa (Konya) Massowah Djibuti Mozambique Lourenco Marques Durban East London Port Elizabeth Cape Town Port Louis (Mauritius) Seychelles	000000000000000000000000000000000000000			100000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000

# CANADA

Communicable diseases—Week ended January 30, 1926. The following table shows the numbers of cases of certain communicable diseases in six provinces of Canada during the week ended January 30, 1926. The information was supplied by the Canadian Ministry of Health.

	Nova Scotia	New Bruns- wick	Quebec	Outario	Mani- toba	Sas- katch- ewan	Total
Cerebrospinal fever Lethargic encephalitis				1			1
Smallpox. Typhoid fever			9	6	i	6	13 16
, , , , , , , , , , , , , , , , , , ,				'			10

Communicable diseases—Ontario—January, 1926 (comparative).—During the month of January, 1926, communicable diseases were notified in the Province of Ontario as follows:

Nissas	19	)26	19	25
Disease	Cases	Deaths	Cases	Deaths
Cerebrospinal meningitis. Chancroid Chieken pox Diphtheria. German measles. Gonorrhea Influenza Lethargic encephalitis. Measles. Mumps Pneumonia. Poliomyelitis. Scarlet fever. Septic sore throat Smallpox Syphilis. Tuberculosis Typhoid fever. Whooping cough	1, 010 288 63 135 2 1, 305 566	2 16 46 3 3 281 1 7 7 822 4 4 3 3	1 11 11 11 11 11 11 12 12 12 12 12 12 12	25 6 3 7 218 1 1

Smallpox distribution.—The greatest numbers of cases of smallpox in the Province of Ontario, Canada, during the month of January, 1926, were reported at Toronto, with 23 cases; Admaston, with 11 cases; and Trenton with 7 cases. Smallpox was reported at 20 localities, the total number of cases being 80, as compared with 50 cases reported for the corresponding month of the year 1925.

Communicable diseases—Ottawa—Year 1925.—Communicable diseases were reported in the city of Ottawa during the year 1925, as follows: Diphtheria, 204 cases, with 15 deaths; measles, 275 cases, occurring mostly during the early summer, with 1 death; scarlet fever, 435 cases, of unusually mild type, with 1 death; tuberculosis, 100 deaths. Typhoid fever was stated to have occurred as scattered cases mostly from outside sources except for cases in September of local origin. These cases occurred in three households in different parts of the city; the source of infection was not determined. Population, 118,697.

Measles—Regina, Saskatchewan.—During the period December 27, 1925, to January 30, 1926, 1,285 cases of measles with 4 deaths were reported at Regina, Province of Saskatchewan, Canada.

#### CANAL ZONE

Communicable discases—December, 1925.—During the month of December, 1925, communicable diseases were reported in the Canal Zone, Colon, and Panama, as follows:

Discase	Canal Zone		Colon		Panama		Infected in out- lying localities		Total	
Discuso	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
Chieken pox Diphthena Dysentery Hookworm Leprosy Malaria Measles Mumps Preumonia 1 Poliomyelitis Tuberculosis 1 Typhold fever Whooping cough	2 130 1 124 6 3	2	2 3 1 2 3 2 5 1	5 3	10 13 8 90 2 2	12	72 2 36 1	11 5 3	14 18 11 294 6 165 20 4	11 24 18

¹ Only deaths reported.

#### CANARY ISLANDS

Plague—Las Palmas—January 7, 1926.—A fatal case of plague was reported at Las Palmas, Canary Islands, January 7, 1926.

#### GREAT BRITAIN

Cardiff, Wales—Correction—Smallpox.—The report of 14 cases of smallpox with 8 deaths in Cardiff, Wales, during the week ended August 8, 1925, which was published in the Public Health Reports September 4, 1925, and in subsequent issues, was erroneous. The Medical Officer of Health of Cardiff states that only one case of smallpox was reported at Cardiff during 1925, and that case was imported.

### INDO-CHINA

Communicable diseases—October, 1925.—During the month of October, 1925, communicable diseases were reported in Indo-China, as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Cerebrospinal meningitis	7 2 4 107 6 551 15 20	2 2 1 4	Mumps. Plague Poliomyelitis. Puerperal infection. Smallpov. Typhoid fever	65 8 3 2 82 14	7 29 3

a In epidemic form, benign.

¹ Public Health Reports, Feb. 5, 1926, p. 239.

Occurrence according to locality and race.—The cholera and plague occurrence was in the Province of Cochin-China. The 107 cases of dengue were notified in the Province of Laos. Of the smallpox cases, 43 cases with 14 deaths occurred in the Province of Annam, 2 cases with 1 death in the Province of Cambodia, 33 cases with 14 deaths in Cochin-China, and 4 cases in the Province of Tonkin. The cases were in natives; also, the cases of cholera and plague. Four cases of diphtheria were reported in Europeans.

Leprosy.—During the period under report 19 cases of leprosy were reported.

Typhoid fever occurrence.—Thirteen cases of typhoid fever were reported in natives, the greatest number of cases, viz. 8 with 2 deaths, occurred in the Province of Tonkin. One case occurred in a European in the Province of Cochin-China.

#### JAPAN

Typhoid fever increase—Tokyo.—Recent information shows an increase in typhoid fever prevalence at Tokyo, Japan, during the two weeks ended January 9, 1926, the number of cases and deaths being reported as follows: Week ended January 2, 1926—cases, 146; deaths, 18; week ended January 9—cases, 105; deaths, 22.. For the week ended December 26, 1925, 50 cases with 15 deaths were reported. During the period June 28 to December 26, 1925, typhoid fever prevalence was noted at Tokyo, the largest numbers of cases being 103 cases reported for the week ended August 1, and 129 for the week ended October 3, 1925. The lowest number reported during the period was 35 for the week ended October 24, 1925. Population, census of October, 1925, 1,995,000.

#### LATVIA

Communicable diseases—November, 1925.—During the month of November, 1925, communicable diseases were reported in the Republic of Latvia as follows:

Disease	Cases	Disease	Cases
Cerebrospinal meningitis. Diphtherin Dysentery Measles. Mumps	38 1 117 37	Paratyphoid fever Rables Scarlet fever Typhoid fever Whooping cough	1 2 241 67 51

#### MALTA

Communicable diseases—December, 1925.—During the month of December, 1925, communicable diseases were reported in the island of Malta as follows:

Disease	Cases	Disease	Cases
Broncho-pneumonia	7	Measles	14
Chicken pox	10		2
Diphtheria.	4		1
Influenza.	1		8
Lethargic encephalitis.	2		14
Malta (undulant) fever	32		19

Smallpox.—From October 1 to December 28, 1925, 59 cases of smallpox were reported in the island. From October 1, 1925, to January 19, 1926, a total of 66 cases was reported, of which 15 were reported at Valetta and 22 at Floriana.

#### MAURITIUS

Plague—October, 1925.—During the month of October, 1925, seven fatal cases of plague were reported in the island of Mauritius, of which two occurred at Pamplemousses, three at Port Louis, and two at Rivière du Rempart.

# PALESTINE .

Communicable diseases—November, 1925.—Communicable diseases were reported in Palestine for the month of November, 1925, as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Cerebrospinal meningitis. Diphtheria Messles. Scarlet fever	1 6 473 7	1 26 1	Tuberculosis Typhoid fever Typhus fever	53 91 3	22 7

Population, 1924-681,245, not including Bedouin tribes and military forces.

# TRINIDAD (WEST INDIES)

Smallpox (reported as alastrim)—Port of Spain.—Information dated January 22, 1926, shows the occurrence of an imported case of smallpox (alastrim) at Port of Spain, Trinidad, West Indies. The case occurred in a boy who arrived in the colony on a sloop from Yrapa, Venezuela, January 6, 1926, was taken ill with fever January 10, and developed a rash January 14, 1926. The contacts, 21 in number, were stated to have been vaccinated.

## UNION OF SOUTH AFRICA

Plague—Kimberley District, Cape Province.—During the week ended December 19, 1925, a case of plague, occurring in a native, was reported in Kimberley District, Cape Province, Union of South Africa.

Typhus fever.—Typhus fever was reported in the Union of South Africa during the two-week period ended December 26, 1925, in the Cape Province, Orange Free State, and Transvaal.

# CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

# Reports Received During Week Ended February 19, 1926 ¹ CHOLERA

Place	Date	Cases	Deaths	Remarks
India: Calcutta Madras Philippine Islands: Manila Province Bataan Pampanga	Dec. 13-26	28 28 2 14 22	24 13 2 11 19	Subject to later correction.
	PLA	GUE		
British East Africa: Uganda	Oct., 1925	153	148	

British East Africa: Uganda Canary Islands:	Oct., 1925	153	148	
Las Palmas	Jan. 7	1	1	
Ceylon: ColomboIndo-China	Dec. 27-Jan. 2	1	1	October, 1925: Cases, 8; deaths, 7.
Province— Cochin-China	Oct 1-31	8	7	, , <b></b>
Iraq: Bagdad	Dec. 27-Jan. 2	3	2	
Java: Batavia Mauritius	Dec. 19-25	37	35	Province. October, 1925: Cases, 7; deaths, 7.
Pamplemousses Port Louis	Oct. 1-31do	2 3	2	Course, reads Calles, r, acaims, re
Rivière du Rempart Netherlands India Celebes Island—	do	2		
Makasser	Dec. 12			Epidemic.
Peru: Lima	Jan. 1-31	20		In hospital. In province some
Mollendo	do			Present with 12 or 15 cases re-
Union of South Africa Cape Province—				ported unofficially.
Kimberley District	Dec. 13-19	1		In native.

¹ From medical officers of the Public Health Service, American consuls, and other sources.

# Reports Received During Week Ended February 19, 1926—Continued SMALLPOX

Place	Date	Cases	Deaths	Remarks
Algeria:	Dec. 21-31	68	•	
Do British East Africa:	Jan. 1-10	64		
Mombasa Uganda	Dec. 13-19 Oct. 1-31	ī	1	
Canada: Manitoba Winnipeg	Jan. 24-30 Jan. 31-Feb. 6	1 2		
Ontario				January, 1926. Cases, 80; corresponding period, year 1925—cases, 50. Present in 20 locali-
AdmastonOttawa	Jan. 1-31 Jan. 31-Feb. 6	11 1		ties.
Toronto.	Jan. 1-31	23		
Trenton	do	7		
Saskatchewan Regina China	Jan. 24–30dodo	6 1		
Amoy	Dec. 21-Jan. 2		l	Present.
Chungking	Dec. 27-Jan. 9			Do.
Foochow	Jan. 10–16 Dec. 20–26			Do.
Hankow	Jan. 10-16	1		
Hongkong	Dec. 20-26	1		Classes foreigns double foreign
Shanghai		9	16	Cases, foreign; deaths, foreign and native, in International Settlement and French Con- cession.
Swatow	Dec. 27-Jan. 9	1		Present.
England and Wales	Jan. 3-23	958 15		-
Hull	Jan. 10-23 Jan. 10-16	15		•
Newcastle-on-Tyne Nottingham		4		1
Do				
India:	DCC. 21 000. 0	1 ~		
Calcutta	Dec. 13-26	. 19	7	
Korachi	Dec. 13-26 Dec. 27-Jan. 2	7	2	
Madras	_ do	. 3	1	
Rangoon	. Dec. 13-19	. 1		
Indo-China		.	-	Oct. 1-31, 1925. Cases, 82, deaths, 29.
Province-				
Annam	_ Oct. 1-31	. 43		1
Cambodia.	- go	33	1 14	i
Cochin-China. Tonkin				
Iraq:	-,	-\ *		·}
Bagdad	Dec. 27-Jan. 2	. 1		
Batavia	Dec. 19-25			Province.
Malta	Nov. 1-30	[		Oct. 1, 1925-Jan. 19, 1926: Cases, 66 - Floriana, 22; Valetta, 15.
Mexico:		1	l	66 -Floriana, 22; Valetta, 15.
Aguascalientes	Jan. 24-30		_ 3	
Durango	Jan. 1-31	-	- 2	
Guadalojaro	Feb. 1		ī	
Mexico City	Jan. 17-23	ì		Including municipalities in Federal District.
San Luis Potosi	. Jan. 24-30	· <u>2</u>	. 2	
Tampico Portugal:	Jan. 21-31	- 2		
Lisbon	Tree 20-28	8	(	
Do	Dec. 20-28	40		
Sierra Leone:	1	7	1	1
Konno District	Dec. 16-31	. 5		In one locality.
Spain:	1	ł	1	1
Valencia	Jan. 10-16	. 3		· 1
Trinidad (West Indies): Port of Spain	Jan. 22	. 1		In boy arrived on sloop from
	. Jau. 22			Yrapa, Venezuela, Jan. 6, 1926. (Reported as alastrim).
Tunisia: Tunis	Ton 11-00	. 4		
* # Chiparanananananananananananananananananana	Jan. 11-20	-  *		-

#### Reports Received During Week Ended February 19, 1926-Continued TYPHUS FEVER

Place	Date	Cases	Deaths	Remarks
Argentina: Rosario Bulgaria: Sofia. China: Hongkong. Mexico: Durango. Mexico City. Union of South Africa: Cape Province. Orange Free State. Transvaal.	Dec. 1-31	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	Including municipalities in Federal District. Outbreaks. Do. Do.

#### Reports Received from December 26, 1925, to February 12, 1926 1 CHOLERA

#### Date Cases Deaths Place Remarks Oct. 18-Nov. 28, 1925: Cases, 10,991; deaths, 6,498. India Calcutta..... Nov. 1-28 101 89 Dec. 6–12_____ Nov. 15-Dec. 26___ Nov. 8-Dec. 5____ Do.... 30 Madras.... 146 57 Rangoon.... September, 1925: Cases, 9; deaths, 5. September, 1924: Cases, 7; deaths, 4. (European cases, 2.) September, 1924: None. September, 1924: None. Indo-China Province-Annam Cochin China Sept. 1-30----2 ____do____ 5 3 Tonkin..... ---Aug. 30-Oct. 17.... 409 Japan Philippine Islands: Manıla Japan... Nov. 9-Dec. 5.... Dec. 14-26.... 8 6 2 5 Do..... Provinces-Bataan.... Nov. 30-Dec. 13... 10 8 Oct. 18-Nov. 7.... Nov. 23-Dec. 13... Bulacan.... 92 179 64 69 Do..... ----do------13 Laguna..... Nueva Ecija.... 16 ___do____ ĕ Pampanga..... ĩ 80 56 21 Do.... Rizal 75 23 Romblon.... 12 Russia Do..... Siam: Bangkok... Do.... Oct. 4-Nov. 14.... Nov. 22-Dec. 19... 108 68 209 117 On vessel: Oct. 3..... Arrived at Bangkok, Siam; 9 Steamship..... 9 cases in coolie passengers. PLAGUE

#### Jan. 24-30, 1926: Six cases, occur-ring in interior provinces of Salta and Santa Fe. Argentina_____ Brazil: Bahia. Nov. 8-14... 2 Santos... Dec. 8-21____ 2 British East Africa: Kenya— Kisumu Nov. 22-Dec. 5----2 Uganda Protectorate September..... 103 85 Canary Islands: La Laguna... Las Palmas... Dec. 24_____ 2

1 3

Las Palmas do Dec. 18–27 Dec. 18–27 do Dec. 18–27 Dec. 18–27 de Teneriffe Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 de Dec. 18–27 d

¹ From medical officers of the Public Health Service, American consuls, and other sources

## Reports Received from December 26, 1925, to February 12, 1926—Continued PLAGUE—Continued

Place	Date	Cases	Deaths	Remarks
Ceylon:	NT057 15 00	3		
Colombo Do	Nov. 15-28 Nov. 29-Dec. 5		3	1 plague rodent.
China: Nanking	Nov. 15-Jan. 2			Prevalent.
Ecuador:		1	**********	11070000
Eloy AlfaroGuayaquil	Jan. 1–15 Nov. 1–Dec. 31 Jan. 1–15	31	12	•
Do Recreo (country estate)	Jan. 1-15do	15 1	5	Rats taken, Nov. 1-Dec. 31, 1925; 49,370; rats found infected, 281.
		•		Rats taken, Jan. 1-15, 1920: 11,864; rats found infected, 80. Jan. 1-Dec. 9, 1925: Cases, 138. Corresponding period, 1924:
EgyptBeni SuefFayoum Province	Nov. 18	1	1	Jan. 1-Dec. 9, 1925; Cases, 138. Corresponding period. 1924;
Fayoum Province Greece:	Dec. 3-9	1	1	Cases, 365.
Athens	Nov. 1-30	18	4	Including Piræus.
PatrasIndia	Nov. 13-Dec. 12	4	1	Oct. 18-Nov. 28, 1925; Cases,
Bombay. Calcutta. Karachi. Madras. Do.	Dec. 6-12	1	1	7,420; deaths, 5,031.
Calcutta	Nov 1-Dec 19	1 4	1 3	
Madras	Nov. 1-Dec. 19 Oct. 25-Nov. 7	75	i 41	
Do	Nov. 15-21	35	22	
Rangoon Indo-China	Oct. 25-Dec. 12	19	12	September, 1925; Cases, 17:
Province— Cambodia	Sept. 1-30	11	11	September, 1925: Cases, 17; deaths, 16. September, 1924: Cases, fatal, 12. September, 1924: Cases, 9;
· ·	1 -	1		deams, a.
Cochin ChinaIraq:	į	6	5	September, 1924: 1 case, 1 death
BagdadJava:	Dec. 13-26	4	1	
Batavia	Oct. 24-Nov. 6	94	89	Province.
Do Cheribon	Nov. 14-Dec. 18 Sept. 27-Oct. 17	232	219	
Do	Nov. 15-28		166	
Djokjakarta	Oct. 20-Nov. 9		30	Epidemic in one locality.
Djokjakarta Kediri	Dec. 7	.		Do
Pekalongan Do	Sept. 27-Oct. 17 Nov. 8-28		42 80	
Rembang	Oct. 20		00	Do.
Rembang Soerabaya	Oct. 11-Dec. 5	37	37	
Tegal Do	Sept. 27-Oct. 17 Nov. 8-28	. 6	. 14	
Madagascar:	1404. 0-20		14	
Province—	a 10 0 01			
Itasy Moramanga	Sept. 16-Oct. 31		20 17	
Tananarive	do	174	159	
Town-	G 10 O-4 15	_		
Fort Dauphin Tamatave (port)	Sept. 16-Oct. 15 Sept. 16-30	5 3	2 2	
D0	_  Oct. 16-31	. 4	4	
Tananarive	.! Sept. 16-30	. 2	2	
Mauritius Island Nigeria	August-September	349	267	
Peru:	1	1		
Huacho Russia	Jan. 26	15		Port 60 miles north of Callao.
Do	May-June July-August	67 139		
Senegal	September - Octo-	45	25	
Siam Bangkok	1	50	40	
Bangkok Straits Settlements:	Nov. 15-28	3	3	
Singapore	Nov. 1-Dec. 5	8	8	
Syria: Beirut	Nov. 11-20	1	_	
Union of South Africa: Cape Province—		_		
Middleburg district Steynsburg district Orange Free State—	Dec. 6-12 Nov. 15-21	. 1		European. Native. On farm.
Beshof district	Nov. 29-Dec. 5 Dec. 6-12	1	1	In native. Native. On farm.

## Reports Received from December 26, 1925, to February 12, 1926—Continued SMALLPOX

Place	Date	Cases	Deaths	Remarks
Aigeria:				
Algiers	Nov. 21-Dec. 20	109		
Aden	Nov. 29-Dec. 5	1		Imported.
Argentina: Rosario	October		1	
Australia: Queensland—				
Brisbane	Dec. 9-15	1		
Rio de Janciro	Nov. 1-28	134	72	
Do British East Africa: Kenya—	Dec. 6-26	65	26	
Mombasa	Nov. 15-Dec. 12 Sept. 1-30	14	5 4	
Uganda Protectorate British South Africa:	_	3	-	
Southern Rhodesia	Nov. 13-Dec. 23			Sept. 13-Jan. 2: In 7 Provinces,
Alberta	Jan. 10-23	17		186 cases. Jan. 3-23, 1926; cases, 115
Calgary	Dec. 13-19	1		From Drumheller, vicinity of Calgary.
British Columbia— Vancouver	Jan. 4-10	1		
Manitoba	Jan. 3-23	17		
Winnipeg	Dec. 13-19	2 8		•
New Brunswick—	Jan. 3-30	•		
Northumberland	Dec. 6-13	1		December 1005, Goras 20,
OntarioOttawa	Dec. 6-12	2		December, 1925: Cases, 32; deaths, 1. Occuring in 15 lo- calities. January 3-23, 1926:
Do	Jan. 3-9	ĩ		calities. January 3-23, 1926;
Toronto.	Dec. 27-Jan. 2	1		Cases, 66.
Do	Jan. 3-23	21		
Saskatchewan Moose Jaw	do	15 2		
Ceylon: Colombo	Dec. 6-12	1		Port case.
China: Amoy	Oct. 25-Dec. 19		1	
Antung Chungking	Dec. 7-20	2		-
Chungking	Nov. 15-Dec. 26 Nov. 1-Dec. 26 Nov. 14-Dec. 26			Present. Do.
Foochow Hankow	Nov. 14-Dec. 26	4		20.
Hongkong Manchura—	1000. 22-28	3		
An-shan Dairen	Dec. 6-12 Oct. 19-Dec. 20	67	15	
Mukden	Oct. 24-Nov. 15	1 1		<u> </u>
Tieh-ling.	do	2		D-
Nanking Do	Nov. 21-Dec. 26 Dec. 27-Jan. 2			Do. Do.
Shanghai	Nov. 21-Dec. 26 Dec. 27-Jan. 2 Oct. 25-Dec. 26	30	31	
Do Swatow	Dec. 27-Jan. 2 Nov. 22-Dec. 5	7	5	Do.
Tientsin	Dec. 27-Jan. 2 Nov. 22-Dec. 5 Nov. 1-Dec. 19	2		200
Egypt: Alexandria	Dec. 3-31	5	2	
France				September, October, 1925: Cases,
Gold CoastGreat Britain:	September, 1925	14	4	31.
England and Wales	Nov. 15-Dec. 26	790 203		
Hull.	Dec. 27–Jan. 2 Dec. 27–Jan. 9	14		
· Newcastle-on-Tyne	Nov. 29-Dec. 19 Dec. 27-Jan. 2	6		
Do Nottingham	Dec. 27-Jan. 2 Dec. 13-26	1 5		
Sheffield.	Nov. 22-Dec. 12	5 7		1
Do	Nov. 22-Dec. 12 Dec. 20-26	3		]
Do	Dec. 27-Jan. 9	2		
Greece	NTON 1.90		i	Oct. 1-31,-1925: Cases, 16.
AthensIndia	Nov. 1-30	17		Oct. 18-Nov. 28, 1925: Cases, 8,827; deaths, 1,915.
Bombay	Nov. 8-Dec. 19	22 29	16 18	5,527; deaths, 1,915.

### Reports Received from December 26, 1925, to February 12, 1926—Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
India—Continued.				
Karachi	Nov. 1-21	23		
Do	Nov. 29-Dec. 5 Dec. 13-19	4	2	
Do	Dec. 13-19	3		
Madras	Nov. 15-Dec. 26 Oct. 25-Nov. 28	17	5	
Rangoon	Oct. 25-Nov. 28	3 2		
Do Indo-China	Dec. 6-12	2	1	Contombou 100E: Come 10
				September, 1925: Cases, 12 deaths, 33. September, 192 Cases, 78; deaths, 22.
Province— Annam	Sept. 1-30	47	9	September, 1924: Cases,
Cambodia	do	29	8	deaths, 2. September, 1924: Cases, 1
Cochin China	do	28	16	deaths, 1. September, 1924: Cases, 4 deaths, 19.
Tonkin	do	18		September, 1924: Cases 11.
Iraq Bagdad	Nov. 1-14	4	4	Sept. 6-Oct. 17, 1925: Cases, 8 deaths, 40.
DoItaly	Nov. 22-Dec. 26	15	ıî	Aug 2-Oct. 31, 1925: Cases, 38
Rome	Oct. 12-25	1		
Jamaica				Nov. 27-Dec. 26, 1925: Cases, 5
Kingston Japan:	Nov. 27-Dec. 26	43		Reported as alastrim.
Talwan Yokohama Java:	Nov. 11-Dec. 10 Dec. 14-20	3 1		
Batavia	Oct. 24-30	1		
Do	Nov. 14-Dec. 18	6		
Cheribon	Nov. 8-14	1		
Kraksaan	Oct. 11-17	11		
Malang North Bantam	do	2 4		
North Baltain	Oct. 4-17 Oct. 25-31	1		
Pekalongan Probolingo	Oct. 11-17	î		
Soerabaya South Bantam	Oct. 11-Dec. 5	467	68	
Tegal	Oct 4-10	9	i	{
Malta	November	14		
Mexico	Dec. 13-Jan. 2	4	3	July-September, 1925: Death 1,157.
Do	Jan. 3-23		4	
Durango	Dec. 1-31 Dec. 29-Jan. 25		1	
Guadalajara Mexico City	Nov. 28-Dec. 5	1	6	Including municipalities in Fe
Do	Jan. 3-9	î		eral district.
San Luis Potosi	Jan. 17-23		3	Gras Gibbrioti
Torreon	Jan. 17-23 Nov. 1-Dec. 31		51	
Nigeria	<ul> <li>August-September</li> </ul>	103	1	
Persia: Teheran	July 23-Sept. 22		203	
Peru: Arequipa	Oct. 1-31		1	
PolandPortugal:				Nov. 1-7, 1925: Cases, 8.
Lisbon	Oct. 4-31	124	1	
Do	_l Nov. 16-Dec. 27		60	
Do	Nov. 14-Dec. 19	179		
Oporto	Nov. 14-Dec. 19 Nov. 22-Dec. 19	. 2	3	
Do	Dec. 27-Jan. 2	. 1		25 2
Russia				May-June, 1925: Cases, 2,33 Later than previously pullished reports.
Do	July-August	760		
Siam				July 12-Sept. 5, 1925: Cases,
Spain:	37aam 1005	1		deaths, 6.
Madrid	Year 1925 Nov. 29-Dec. 5 Dec. 27-Jan 2		18	
Malaga Do	Dec 27-Ten 2		2	1
Valencia	Dec. 20-26	1	1	}
Do	Dec. 27-Jan. 2	i		
Switzerland	-			June 28-Nov. 21, 1925: Cases, 6
T == = *******	1 Oat 1 Man Oo	. 8	1	1
Lucerne Zurich	Oct. 1-Nov. 30 Dec. 27-Jan. 2	î		4

### Reports Received from December 26, 1925, to February 12, 1926—Continued SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks		
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Tunisia: Tunis. Do. Do.	Nov. 21-30 Dec. 11-31 Jan 1-10	2 10 1	<u>1</u>			
Union of South Africa Transvaal—	1 10	•				
Pretoria District	Dec. 6-12			Outbreaks. In native compound.		
TYPHUS FEVER						
Algeria:						
Algiers Argentina. Rosario	October-Dec 20 Oct. 1-31	4				
Bulgaria	September-Oc- tober.	26	2			
Valparaiso	Nov. 29-Jan. 2		2			
China: Antung Manchuna—	Nov. 29-Dec. 27	3	1			
LiarbinC'zechoslovakia	Dec 17-23 October, 1925	1 8				
Egypt. Port Said.	Nov. 19-25	1				
Finland	NOV. 19-20	1		October, 1925 One case.		
France	July-October	4		31111011, 1020		
Germany	Oct. 25-31	1				
Greece:	Nov 1-30	11	2			
Ireland: Cork County—			-			
Cork	Dec 26-Jan. 1	2				
Do	Jan. 2-8	5				
Dunmanway	Nov 14 Oct. 17	1				
Galway County	October, 1925	$\frac{1}{2}$				
Latvia.	October, 1920	-		September-October, 1925: Cases,		
131111444444444444444444444444444444444				9; deaths, 1.		
Mexico	Dec. 14-19			July-September, 1925. Deaths, 90.		
Aguascalientes Durango	Dec 1-31	1	1			
Guadalejara	Dec. 8-Jan 4		3			
Mexico City	Nov. 22-Jan. 9	165		Including municipalities in Fed-		
Tampico	Dec. 21-Jan. 10	1	1	eral district.		
Torreon	Dec. 8-Jan 4 Nov. 22-Jan. 9 Dec. 21-Jan. 10 November, 1925 August, 1925		1			
Morocco Palestine:	August, 1925	3				
Gaza.	Dec. 18	1				
Jaffa Nazaroth	Dec. 18 Dec. 1-7 Nov. 3-9	1				
Nazareth	Nov. 3-9	1				
Safad	NOV 24-30-	į į				
Tel-AvivPeru:	do	1				
Arequipa	October, 1925		2			
Poland	Oct. 11-Nov. 14	142	16			
Rumania				July, 1925: Cases, 74; deaths, 9. May-June, 1925: Cases, 10,680.		
Russia	'			Later than previously pub-		
			1	lished remorts		
Do				July-August, 1925. Cases, 3,136		
Union of South Africa				July-August, 1925. Cases, 3,136 Oct. 1-31, 1925: Cases, 88; deaths, 7 (colored); cases, 7 (European		
				i population).		
Cape Province	Oct. 1-31 Nov. 8-14	63	5	Colored Outbreaks in two districts		
Middleburg District	Dec. 6-12	1		European. On farm.		
Natai	Dec. 6-12 Oct. 1-Dec 5	1				
Orange Free State	l Nov. 29-Dec. 5	23	1	Outbreaks.		
Do Bethulia District	Nov. 1-7 Dec. 6-12			Do.		
Bothaville District	do	1		Native On farm		
Transvaal	Oct. 1-31	î	1			
	YELLO	W FEV	<del></del>	<u> </u>		
Gold Coast	September	1	1 1			
Nigeria	August-Septem-	2	1	A Paragraphic Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control		
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### TREASURY DEPARTMENT

# PUBLIC HEALTH REPORTS

ISSUED WEEKLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

VOLUME 41 NUMBER 9 FEBRUARY 26 -

1926

#### = SPECIAL ARTICLES =

- A Report on Four Cases of Tularaemia (Three Fatal)
- A Community Health Program and Plan of City Health Department



WASHINGTON GOVERNMENT PRINTING OFFICE 1926

#### UNITED STATES PUBLIC HEALTH SERVICE

HUGH S. CUMMING, Surgeon General

#### DIVISION OF SANITARY REPORTS AND STATITSICS

Asst. Surg. Gen. B. J. LLOYD, Chief of Division

The Public Health Reports are issued weekly by the United States Public Health Service through its Division of Sanitary Reports and Statistics, pursuant to acts of Congress approved February 15, 1893, and August 14, 1912.

They contain: (1) Current information of the prevalence and geographic distribution of preventable diseases in the United States in so far as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other communicable diseases throughout the world. (2) Articles relating to the cause, prevention, or control of disease. (3) Other pertinent information regarding sanitation and the conservation of the public health.

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## PUBLIC HEALTH REPORTS

**VOL. 41** 

#### FEBRUARY 26, 1926

NO. 9

## FOUR CASES OF TULARAEMIA (THREE FATAL) WITH CONJUNCTIVITIS

By H. L. Freese, Bacteriologist, Virginia State Board of Health, and G. C. LAKE and EDWARD FRANCIS, Surgeons, United States Public Health Service

A double burial of father and daughter occurred July 7, 1925, in the L. family living on Wallen Creek, Lee County, Virginia. A son had been buried two days before. All had died of tularaemia, having been ill only 8 days, 8 days, and 6 days, respectively.

A daughter 6 years of age was the sole survivor of the outbreak, the four having become ill within a 24-hour period June 28-29. The mother and three other children remained well.

Accurate data bearing on the direct source of infection and its mode of entry into the body are lacking, due to an unusual premeditated reticence on the part of the mother. She would give no essential information other than that a common article of food on the family table had been rabbits which the dog had caught in the field; that the rabbits were dressed either by her husband or by herself; that they were fried in grease and eaten by all members of the family except herself; that the cat had often caught rabbits, some of which were nearly full grown, and had brought them in for her kittens. From one apparently authentic source information was obtained that an epidemic among rabbits had occurred on Wallen Creek in May, 1925.

The father (Mr. P. J. L.), age 37 years, his daughter (C. L.), age 7 years, and his son, age 2 years, became suddenly ill on the evening of June 28, 1925, and another daughter (N. B. L.), age 6, became ill on the evening of June 29. The onset in all cases was sudden and accompanied with fever; the father was nauseated, complained of headache, and had chills, the three children vomited, and the boy, in addition, had convulsions.

Within 24 hours after the onset, all had axillary temperatures of 103° to 104° F., conjunctivitis, and swollen lymph glands in the region of the parotid gland which were bilateral except in the case of N. B. L., in which the swelling was leftsided; in the cases of C. L. and the son the eyelids were so swollen as to require separation by the fingers in order to view the sensitive globe; there was some exudate escaping from the eyes. There was no skin eruption, nor throat symptoms other than some redness.

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During a consultation of two physicians on July 2 the father was delirious and the children were stuporous. The cervical and axillary lymph glands were much enlarged in all the cases; the inguinal glands were not involved; all had temperatures between 103° and 104° F.; there was no evidence of lung involvement; there was no rigidity or spasticity suggestive of meningitis. All manifested the picture of an extreme grade of febrile intoxication.

The father, one daughter (C. L.), and the son grew progressively worse; the son died July 4, and the father and daughter died July 6. All were buried without necropsy having been performed in any case.

The sole survivor (N. B. L.) was visited in her home a few hours after the burials on July 7. Her temperature was 102.8° F., the left eye was swollen, there was marked enlargement of the lymph glands in the left superior cervical region, the throat was slightly reddened, and there was no skin rash. She was conscious but apathetic.

### ISOLATION OF CULTURE FROM THE SURVIVOR .

Swabs taken from the throat and nose of N. B. L. on July 7 were used to inoculate culture media, and on the following day the swabs were washed in saline solution and the pooled washings were used for subcutaneous inoculation of a guinea pig, which died July 13 with typical lesions of tularaemia in the spleen and liver. Portions of the spleen and liver were kept in glycerin in the ice box until July 17 and then rubbed on the shaved, abraded skin of the abdomen of a guinea pig, which died July 22 with the typical lesions of tularaemia, viz, spotted condition of the spleen and liver and cascation of the inguinal lymph glands. The spleen, liver, lungs, and inguinal glands were placed in pure undiluted glycerin and sent to the Hygienic Laboratory, United States' Public Health Service, at Washington. They arrived July 24 and were injected subcutaneously into four sets of guinea pigs, two guinea pigs being used for each kind of tissue. Six of the guinea pigs died acutely with typical lesions of tularaemia—those receiving the spleen tissue remaining well. fers were made by subcutaneous injection and by scarification from the above-mentioned 6 guinea pigs to 14 others, all of which died with typical lesions of tularaemia from which Bacterium tularense was isolated in pure culture on coagulated egg volk and glucose cystine agar.

On August 4, 1925, N. B. L. and her mother were visited. The child's condition was much improved since last seen on July 10, on which date she was unable to see with her left eye; her sight now seemed normal. Her mother stated that a swelling appeared beneath the left eye about July 7 and ruptured into her nose on July 16, when

a "tablespoonful of corruption" escaped from her left nostril, which continued to discharge for several days, during which time the swelling rapidly disappeared.

Examination showed a small, elongated, slightly tender swelling extending downward from the inner canthus of the left eye in the line of the lachrymal duct (purulent dacryocystitis). The conjunctiva of both eyes were clear. A slightly tender, fluctuating tumor about 1 by 1½ inches was present at the angle of the left jaw (parotid lymph gland). Further forward, on the line of the body of the jaw, was another swollen and much firmer gland (submaxillary lymph gland). There was no definite enlargement of the lower cervical and axillary glands. Results of examination of the mouth and throat were negative, but the examination was unsatisfactory because the child could not open the mouth very far. The child was somewhat emaciated, weighed about 30 pounds, and had a listless expression; axillary temperature was 102° F. Bloody purulent fluid obtained August 4 by incision of the abscess at the angle of the jaw was tested at the Hygienic Laboratory by injection subcutaneously into guinea pigs. The pigs remained well.

Ayglutination.—Blood serum collected August 4 from N. B. L. was tested at the Hygienic Laboratory and found to agglutinate Bacterium tularense in all dilutions from 1:10 to 1:1280, but not in higher dilutions.

Noncontagiousness.—Four members of the family remained well. The neighbors passed freely to and from the house during the illness. Both burials were public, and each was attended by about 50 persons. There was no serious illness in the neighborhood before or after the outbreak.

Conjunctival inoculation.—Guinea pigs and rabbits, into the conjunctival sacs of which minute amounts of virulent cultures of Bacterium tularense were gently dropped, care being taken to avoid all irritation of the conjunctiva, developed severe conjunctivitis and enlargement and caseation of the regional lymph glands and died acutely with typical lesions of tularaemia. The culture employed was one obtained from the case N. B. L.

Insufficient cooking.—An experimental rabbit dead of tularaemia was skinned; the femero-pelvic joints were divided; the feet were discarded, and a transverse division was made through the upper lumbar region, thus giving three muscular pieces for frying; these pieces were rolled in graham flour and fried in grease in a pan over a hot gas flame for 10 minutes. When thought to be sufficiently cooked, as evidenced by a brown crust, the pieces were carved with a knife, the successive layers of muscle appearing white and cooked until very near the bone some red strands of muscle were seen, surrounded by red juice; the red muscle was injected into two guinea

pigs and the red juice was injected subcutaneously into four pigs, all of which died acutely with typical lesions of tularaemia.

One can not escape the conclusion that an infected rabbit, if insufficiently cooked, would be dangerous as food.

Thermal death point.—Heating at 56° to 58° C. kills the organism in cultures and in spleen tissue in 10 minutes. Sufficient cooking renders infected tissues harmless as food.

#### SUMMARY AND CONCLUSION

Tularaemia was demonstrated by animal inoculation and by cultural and serological methods in the sole survivor of an outbreak of a glandular febrile affection with conjunctivitis occurring in four members of a family, three of whom died without tests for tularaemia having been made, either before or after death.

The four cases became ill within a 24-hour period and, clinically, they constituted a group which presented the same symptoms and little short of the same course and termination.

Although details as to the source and method of infection are wanting, there is abundant evidence of contact with rabbits, and the proof of the cause of illness of one of the group justifies the conclusion that all were cases of tularaemia.

Whether certain members of the family in dressing infected rabbits transferred the infection by their hands to their conjunctiva or whether insufficiently cooked rabbit was eaten are matters of conjecture only, but the evidence seems to point to primary infection of the conjunctivae.

Acknowledgments.—To Dr. B. T. Young, Duffield, Va.; Dr. C. W. Young, Pennington Gap, Va.; and Dr. W. R. Culbertson, health officer of Norton, Va., we are indebted for clinical observation of the cases.

#### A COMMUNITY HEALTH PROGRAM 1

By Hugh S. Cumming, Surgeon General, United States Public Health Service

In our present highly developed civilization, the complexities of community existence have added many difficult problems in the management of municipal affairs. The growth of large centers of population led to many political, economic, and social relations that have taxed our administrative abilities. Out of all the problems that have concerned mankind during all the ages, health has been a very important factor in determining the progress of human affairs.

The history of medicine reaches back to the early ages, when magic, evil spirits, and religious superstitions pervaded the teachings of those

¹ Address given before the Mid-Atlantic Division of the American Nurses Association, Washington, D.C., Dec. 3, 1925.

periods. The fetters of these traditions have finally been broken, although their influence has not been entirely removed.

In order fully to appreciate the present status of public health work, certain of the circumstances that have determined the course of events during the past 50 years should be kept in mind.

#### THE PUBLIC HEALTH MOVEMENT

Fifty years ago, the "filth theory of disease" had dominated, for generations, practically all health work. Sanitation of the environment and shotgun quarantine methods were relied upon to control epidemics. Some attention, however, had been given to water supplies and sewage disposal. The removal of garbage and the abatement of nuisances of all sorts occupied a prominence out of all proportion to their real importance. A beginning had been made in the registration of births and deaths.

Twenty-five years later the influence of the "germ theory of disease" had introduced a more scientific attempt to combat the spread of communicable diseases. The specific causes of many of the more important of these diseases had been demonstrated and our knowledge of bacterial and parasitic infections was increasing. Disinfection played a prominent rôle during this period.

Today, at the close of the first half-century of the modern public health movement, we have a very considerable knowledge of communicable diseases and immunity. We have recognized the importance of infant welfare and school health supervision, and the physician, the sanitary engineer, and the nurse are slowly displacing the old-style sanitary policeman. We are beginning to apply scientific methods of research to many of the problems of administrative health practice.

There have been three rather distinct phases or tendencies that have characterized the public health movement and influenced the general trend of administrative practice. The first period of suppression preceded the second era of prevention. A third phase, that of health promotion, is already gaining ground.

#### LACK OF STANDARD PRACTICE

Our principles of local self-government have encouraged each community to administer its own affairs quite independently. The States, under the provisions of the Constitution, reserved to themselves certain so-called "police powers," which are the authority for the regulation of the internal affairs of the State, including the health, happiness, and comfort of its inhabitants. In turn, the State delegates certain prerogatives of its police powers concerning health to the local governments, which organize and administer their affairs with only certain minimum restraints from the State.

As a result of this system of government, each community has provided itself with a public health service that was intended to meet local conditions and requirements.

A comparatively recent survey of the 100 largest cities in the United States was conducted by the United States Public Health Service, cooperating with a committee of the American Public Health Association, and a somewhat similar survey of 86 cities was completed in 1924 by the American Child Health Association.

A review of the information collected by these surveys warrants the conclusion that while there has been considerable progress in administrative health practice, there is still found a striking lack of uniformity in practically every activity of local health service. Many of the methods and procedures intended to accomplish the same purpose are obviously inconsistent and frequently are not in accord with our present knowledge.

#### ATTEMPTS TO STANDARDIZE PUBLIC HEALTH PRACTICE

During the past few years, several attempts have been made to establish the relative values of the more important activities of municipal health services. The tendency has been to set up arbitrary standards of practice and to devise a sort of "yardstick" that would measure the relative values of the various procedures.

In the endeavor to encourage a healthy competition and bring about better health service generally, the Committee of the American Public Health Association, with the assistance and cooperation of other agencies and a group of interested local health officers, finally adopted a tentative "Appraisal Form for City Health Work."

It is too early to make any predictions concerning the possible benefits to public health work that may follow such a method of scoring. If it succeeds in encouraging a desire for careful selfanalysis and comparative studies of present methods and practices, it will render a very real service.

Recognizing the possible value of standardization, when the items involved are subject to values that can be definitely determined, the temptation to standardize should not distract attention from the necessity for careful research and scientific investigation of the facts concerned in the methods now in use or that may be developed in the future. The true relative value of many of these activities can be demonstrated only by careful investigation and interpretation of all the information and data that can be collected. It is only by this process of scientific study, that real progress will be made. Revisions and reorganizations of existing practices should be attempted only on this basis.

#### URGENT NEED FOR CAREFUL RESEARCH

Several of the more fundamental principles of public health practice have already been quite definitely standardized or rather universally adopted. Reference is made to such items as the standard certificates for births and deaths; the international classification of the causes of deaths; the model law for morbidity reporting; the proposed standard methods for the control of communicable diseases; standard methods for the examination of water and sewage, milk and shellfish; and certain standards to determine the purity and potency of vaccines, antitoxins, and analogous products.

There are many other problems involved in modern public health work concerning which there exists rather universal agreement as to principle or theory, based largely upon "common consent" or "average experience," but these opinions are often unsupported by careful scientific proof. Before any of these theories or principles can be satisfactorily established, all the available information and data must be collected and interpreted. Out of the experiences of large groups of cities, there is already accumulating an enormous mass of data which, if properly interpreted, would bring about a revision of many of the ideas and theories that are now influencing the general trend of many activities.

Every health officer and all professional personnel engaged in public-health work should learn to develop this spirit of scientific inquiry.

### SEARCH FOR AN "IDEAL" HEALTH ORGANIZATION

When anyone attempts to propose an "ideal" plan of organization for adequate community health service for a city of a given size, it might seem logical to review the records of a group of apparently progressive communities and to pick out the city with the most highly developed service and offer that as the ideal or standard for the group. In attempting to do this, one would soon reach the inevitable conclusion that no two cities have followed the same scheme of organization.

The exact plan of local health service that will fulfill all the essential requirements of any selected community must be adapted to the circumstances and conditions peculiar to that community. Because of climatic, geographic, political, social, racial, economic, or other purely local characteristics, the vital health problems of one city may well differ from the particular problems that are of special concern to some other city. This idea has led at times to the conclusion that it is impracticable to propose any standard or uniform basis for health department organization.

As a matter of fact, however, many of the obstacles to be overcome in developing an adequate and comprehensive plan for community health service are imaginary rather than real ones. Man is subject to certain diseases and disturbances that obey rather fixed laws, irrespective of purely local conditions.

In spite of such considerations, the essential public health problems in different cities differ not so much in their nature as in the comparative magnitude of the problems presented. There are certain basic requirements that should be fulfilled in practically every community, so that it is possible, therefore, to propose a more or less "ideal" health service that will at least represent minimum requirements.

#### A CITY OF 100,000

In the report on the surveys of 1920, prepared by the American Public Health Association, there was presented a plan for an "ideal" health department for a city of 100,000 population. This plan represented, in the opinion of the authors, the best current practice in each special line of activity, based on the average practice in the 83 large cities, or on the practice of cities which appeared to excel in some particular activity. The details of this proposed minimum standard for the larger cities were clearly set forth.

#### FOR A CITY OF 50,000

In the recently published report on the survey of the 86 smaller cities by the American Child Health Association there is included a somewhat similar plan of organization for a city of 50,000 population.

In both of these plans the same essential items of service are included, and the scheme of organization for the central health department is quite similar. In general, the plan of organization includes the following administrative divisions, the designation of which indicates the principal functions that are included:

#### HEALTH DEPARTMENT ORGANIZATION

- 1. Bureau of Administration:
  - (a) Administration.
  - (b) Vital statistics.
  - (c) Public health education.
- 2. Bureau of Communicable Disease Control:
  - (a) Tuberculosis.
  - (b) Venereal diseases.
  - (c) Epidemiology (other preventable diseases).
- 3. Bureau of Child Hygiene:
  - (a) Maternal and prenatal care.
  - (b) Infant and preschool welfare.
  - (c) School health supervision.
- 4. Bureau of Laboratories.
- 5. Bureau of Public Health Nursing.
- 6. Bureau of Milk and Food Control.
- 7. Bureau of General Sanitation.

In such a plan of organization, there are included the essential basic functions of an adequate community health service. They represent legitimate obligations of the central government, although in practice it is frequently found that several of these activities are actually carried on either by voluntary agencies or by some division of government other than the health department. For example, voluntary agencies, such as visiting nurse associations, antituberculosis societies, and the like, still furnish more or less of the service provided in many cities for prenatal, infant, and preschool welfare and the care of tuberculosis. School medical supervision is conducted frequently by the board of education. Some of these activities will probably be more effectively carried on by voluntary agencies for the time being and until the central authorities are able to take on greater responsibilities.

The budget necessary to carry on the essential services proposed for these two groups of cities varies from \$1.95 per capita for the average city of 100,000, to \$1.54 for a city of 50,000, exclusive of hospital service for communicable diseases. If hospital care is included, the per capita cost becomes \$2.35 and \$1.64, respectively.

These figures represent the cost of all the health service that is considered necessary, including the cost of work that may be carried on by agencies other than the official health department. In the group of 100 large cities, the per capita cost of adequate service, given as \$1.95, is at least four times the average budget allotted to these municipal health departments at the present time.

I do not intend to convey the impression that the outline of divisional organization that has been presented is intended as a model that should be followed by all of the cities above 40,000 population. Details of administration will vary, the number of independent bureaus or divisions depending partly at least upon the availability of trained personnel, but every community should make reasonably adequate provisions to carry on all of the activities mentioned, either through central authorities or local voluntary agencies. The facilities required for any particular activity will, of course, depend upon local needs and requirements.

As we pass to the smaller cities, we find more and more of the work being carried on by agencies other than the health department. There is a tendency, however, slowly developing, for the central authorities to assume more responsibility and to take over, gradually, activities that have been organized by private agencies.

In the smaller towns, and particularly in the rural sections, provisions for local health service are much less adequate than the service now established in the incorporated cities. After several years of activity on the part of the United States Public Health Service and the International Health Board, working in

cooperation with State and county boards of health, only a beginning has been made in securing whole-time health service for rural communities.

#### ESSENTIAL ELEMENTS FOR COMMUNITY HEALTH SERVICE

If a community's conscience is sufficiently aroused by some emergency, such as a severe epidemic, and there is created a desire to provide itself with reasonably adequate health service, what procedure should be adopted?

The first logical step would be to arrange for a comprehensive and detailed public health survey. Health is a business enterprise of first importance to any community. No business, either public or private, can hope to determine its assets and liabilities without a thorough inventory. The public health survey is the only practical means by which a community can discover its essential health problems, and, by careful interpretation, develop a sound policy and well-balanced program suited to actual needs.

No attempt should ever be made to reorganize or plan a community health program on general principles or by endeavoring to further expand or develop some special activity that may, for the moment, seem urgent or popular. The ultimate success of local health service depends chiefly upon a sound basic policy and a well-balanced program with adequate funds and trained and experienced personnel under competent centralized authority.

#### POPULAR HEALTH EDUCATION

Notwithstanding the very commendable progress that has been made in developing the technique of modern public health administration, there is considerable unfinished business. Public health authorities have recognized the limitations of police power in controlling disease or promoting better health. This has introduced a new activity, usually referred to as popular health education. Suppressive and preventive measures, compulsorily enforced, will still be necessary; but we have learned that the individual will contribute more to the health of his community if he can be taught to practice the essential principles of health, hygiene, and sanitation.

The field of popular health education has not been half explored. Many methods and devices have been tried, but these efforts have been directed chiefly toward mass teaching. A direct appeal to the individual seems to promise more encouraging results; and of all the agencies that have established effective and extensive contacts with the individual, none has been as successful as the public health nurse.

#### THE PUBLIC HEALTH NURSE

The first municipal nursing service seems to have been established in Los Angeles in 1898, although private district nursing for the unhospitalized sick had been provided in Boston as early as 1887. Prior to 1914 efforts in visiting nursing were largely pioneer in character and the service increased gradually from 130 nurses in 1901 to approximately 3,000 nurses in 1912, the majority being engaged by private organizations.

Municipal nursing apparently proceeded more slowly until after the World War, which created a greater demand for home nursing. In 1918 the United States Public Health Service, for the first time in its history, established a section of public health nursing, and through the cooperation of the American Red Cross it was possible to provide a nursing service in the extra cantonment areas. This was the first introduction of many communities to an experience with a municipal nursing service.

In 1924 there is a record of approximately 12,000 public health nurses engaged in both official and private capacity. There were about 6,000 nurses enrolled in municipal work in 99 of the 100 large cities surveyed in that year. This appears to leave only about 6,000 nurses to be distributed in all of the other communities.

This rather sketchy review of nursing activities is presented merely to indicate that, as a municipal function, it is a comparatively new activity. However, health authorities have gradually become convinced that the public health nurse is one of the most important links in the chain of efficient public health administration. As a field agent of the health officer, the nurse has undoubtedly made the strongest appeal and established a more direct and effective contact with the individual than any other emissary of his department.

The science of municipal public health nursing and the art and craft of her field service have not become very definitely established, however. Her prescribed duties are still rather vague and she has been assigned to almost every possible variety of service. Certain principles of municipal nursing are developing, but as yet there appears to be no accepted measure for the value of the services she renders, either in respect to quality or quantity. Judging from the recent surveys that have been made, no general agreement has been reached as to the logical position of the nursing service in the organic structure of the health department.

It has been said that public health work to-day in any community can be measured by the extent to which public health nursing has been developed. To a certain extent this is probably true; but opinions as to what constitutes an adequate nursing service seem to differ rather widely. The theoretically effective ratio is usually 1

nurse to 2,000 or 3,000 population, and yet in the 99 large cities for which records were available the average ratio for the whole group was only 1 to 5,000 approximately. It varied from 1 to 6,300 in the group of larger cities to 1 to 5,400 in the smaller cities.

In the "ideal" plan of organization for a city of 100,000, proposed by the committee of the American Public Health Association in 1923, 30 nurses were considered necessary to provide adequate preventive work, or an increase to 50 nurses if bedside care on an hourly basis is provided. Even with more conservative provisions, it is apparent that the majority of cities at the present time are inadequately equipped to provide even a reasonably satisfactory service.

In the large cities surveyed in 1924 by the Public Health Service, the municipal expenditures for public health nursing varied from 1.5 cents to 36.6 cents per capita, with an average of 15.4 cents, as compared with 9.5 cents for the same group in 1920. It is evident that such an expenditure falls far short of the average cost per capita of 83 cents proposed in the "ideal" plan. It should be remembered, however, that this plan included the cost of private as well as official nursing, and that the figures for the 1924 surveys include only the municipal service. It should also be noted that the estimate of 83 cents per capita is equal to or greater than the sum which is now being expended for all strictly health work by many cities, including nursing services. This does not mean that the estimate for nursing is high, but that the expenditure for health work is low.

The problem of organization does not seem to be satisfactorily adjusted. Our surveys indicate that only 25 out of 82 of the larger cities reporting in 1924 had organized separate bureaus or divisions of nursing. In 57 cities the nursing force was assigned to various services. There are many conditions and requirements to be considered in connection with organization plans, and further experience and careful study will undoubtedly be necessary. Whatever organization is proposed, many authorities appear to agree that the nursing service should be under the direction of the health officer himself in the smaller cities, or under competent medical supervision. Central supervision by an experienced administrative supervisor or director of nurses is desirable.

There has been considerable discussion concerning the relative importance of the specialized and the generalized district plan of nursing, and arguments have been advanced in favor of both plans. There is a tendency, perhaps, to adopt a generalized district service in the larger cities studied in 1924, and this seems to be the better plan.

The relation of the municipal service to the existing voluntary health agencies is an important one. Much of the work carried on in many communities will continue to be given by the voluntary

agencies for the present. There should, however, be premitted no real division of responsibility, and the general supervision of all the service that is rendered to the community should be centralized under the direction of the health officer in order to guarantee a well-balanced program.

One other important consideration will be mentioned in conclusion, and that is the qualifications of a successful public health nurse. In order to undertake the multiplicity of duties that have been assigned to her, she should have, in addition to an adequate professional training, both in nursing and public health methods, a healthy body and human interest in her work, "tact, insight, a feeling heart, a quick mental grasp of persons and situations, dignity, persuasiveness—these things come by grace of nature."

I know of no nobler calling in the professional field of public health, no service that gives promise of such benefits to the individual, as that of a successful public health nurse.

#### SUMMARY

The modern public health movement, spanning a period of 50 years, has progressed from attempts merely to suppress disease to an era of prevention, and, finally, has recognized the necessity for health promotion activities.

Notwithstanding the commendable progress that has been made in public health practice, recent surveys of 186 large cities have disclosed a great variety of method and procedure, many of which are inconsistent and not in accord with our present knowledge.

There is a growing tendency to encourage standardization of public health methods and to establish arbitrary measures for the relative values of various elements of practice. Standards are undoubtedly desirable but the relative values of many items can be definitely determined only after careful scientific study and interpretation of details and a demonstration of the principles involved, preliminary to any attempt to establish relative values or to revise present methods.

Plans for the organization of an adequate health service have been proposed for average cities of 50,000 and 100,000 population, respectively, as a result of recent surveys. These plans represent minimum requirements that are considered reasonable and necessary for every community and include services rendered by both public and private agencies. Voluntary health agencies will probably continue to provide some of the service for the present, and until the public authorities are able to assume greater responsibilities.

Reorganization of public health activities in any city should be based upon a careful, comprehensive survey setting forth the resources and needs of the community. Such an inventory is necessary in order to develop a well-balanced program.

Health authorities have recognized the fact that police power enforcement of compulsory laws for suppressive and preventive health work while still necessary, must be supplemented by greater cooperation on the part of individual citizens. A greater emphasis is being placed upon popular health education as a means of encouraging the individual to practice the essential principles of hygiene, health and sanitation.

In the promotion of popular health education, no agency has made better contacts with the individual or a greater or more effective appeal than the public health nurse.

Public health nursing, as a municipal function, is a relatively new activity. The first municipal nurse was engaged by the City of Los Angeles in 1898. Private district nursing had already been expanding for several years. The World War served to stimulate a greater demand for both municipal and private visiting nursing services.

In 1924 there is a record of 12,000 public health nurses, municipal and private. Six thousand of these were engaged in municipal service in 99 of the largest cities (1923). Health authorities have gradually recognized the important rôle played by the public health nurse.

The science and art of public health nursing have not been definitely established. The duties of the public health nurse are still vague and varied. There is a tendency to adopt the plan of generalized district nursing. The ratio of 1 nurse to each 2,000 or 3,000 population is usually recommended. On this basis, the majority of cities to-day are inadequately equipped. Many of the problems concerned with public health nursing require careful scientific study, demonstration of principles and definition of services rendered.

The relation of municipal to private nursing agencies is an important one. There should be no division of responsibility and the general supervision of all services to the community should be centralized under the general direction of the local health officer to guarantee a well-balanced program.

### VIRGINIA HEALTH COMMISSIONER APPEALS AGAINST RETRENCHMENT IN HEALTH WORK

In order to inform the General Assembly of Virginia regarding the needs of the State board of health for its proper operation and the minimum requirements for a continuance of its work based on present methods and achievements, Dr. Ennion G. Williams, State health commissioner, prepared a statement for the finance and appropriations committees of the senate and house. In this statement there are concisely presented the financial needs of the board if certain

¹ Virginia Health Bulletin, published by the Department of Health of Virginia, February, 1926.

health standards are to be maintained and certain important branches of public health work are to be continued.

A reduction in the appropriation for rural health work is shown to mean an actual reduction for this work of four dollars for every dollar the State appropriation is curtailed, since the amount appropriated by the State is supplemented approximately to this extent by the International Health Board and the localities in which the work is done. Rural health work is stated to be especially important in Virginia as there is a shortage of physicians in the rural sections of the State: and as for dental conditions, it is said that 40 counties of the State have a total of only 41 dentists-15 counties being without a dentist. Since 1921, when dental clinics were first held in the State, clinics have been held in 70 counties, at which 41,816 children were treated and 152,052 operations were performed under a plan of divided The commissioner's statement makes an appeal for the continuance of this work, as well as for sufficient funds adequately to continue other rural health work, aid in county health nursing, maintenance of milk standards and the increasing of milk consumption, and social hygiene work. It is shown that increased funds are needed for the State laboratory in order to enable it to handle the increasing amount of work being asked of it, which would be impossible without additional personnel.

Concrete evidence of achievement in public health work is shown in many ways, but especially in the improvement in the general healthfulness of a population and by the lowering of the death rates for preventable diseases. Doctor Williams presents some interesting charts which show the reduction in the death rates for several important communicable diseases, a large part of which reduction is unquestionably the direct result of public health work.

### SMALLPOX IN LOS ANGELES, CALIF.

Smallpox has been reported as unusually prevalent in Los Angeles, Calif., during the last few months. The type of the disease, which was mild during the fall, has become severe, and recent reports show a considerable number of deaths from the disease.

The commissioner of health of Los Angeles is endeavoring to interest employers of labor and others in a campaign for vaccination. With proper cooperation from the public, the epidemic will be short-lived.

The following table shows the cases of smallpox and deaths from the disease in Los Angeles during the last seven months:

Reports of smallpox in Los Angeles, Calif., from July 1, 1925, to January 31, 1926

	Cases	Deaths
July, 1925 August, 1925 September, 1925 October, 1925 November, 1925 December, 1925 January, 1926	93 41 26 38 33 75 199	1 2 2 5 3 10 26

### RABIES AND DOG BITES IN NEW YORK CITY, 1921 TO 1925

The following is taken from the Weekly Bulletin of the New York City Department of Health dated January 30, 1926:

Because of the increase in rabies in New Jersey and in Westchester County, active measures will be taken to bring about a rigid enforcement of the dog-muzzling ordinance. This has in the past been one of the most difficult problems with which the department has had to cope.

Dog owners do not appreciate the magnitude of this problem. Each owner, believing that his dog is harmless and does not bite, can not understand why his dog must be muzzled. The records of the department, however, tell a different story regarding the subject of unmuzzled and improperly muzzled dogs. The following table shows the number of dog bites in the last five years, 1921 to 1925, inclusive:

Year	Number of dog bites
1921	3, 049
1922	3, 455
1923	4. 538
1924	4, 699
1925	7, 030

Thus, in 1921 there were 3,049 dog bites, as compared with 7,030 in 1925, an increase of more than 100 per cent.

The number of rabid dogs has also increased. In 1920 there were 44 rabid dogs, as compared with 76 in 1925.

A study of the breed of dogs shows the poodle to be the most frequent offender. The cooperation of everyone is urged in this campaign. Proper muzzling of dogs in public places will control this situation.

### DEATHS DURING WEEK ENDED FEBRUARY 13, 1926

Summary of information received by telegraph from industrial insurance companies for week ended February 13, 1926, and corresponding week of 1925. (From the Weekly Health Index, February 16, 1926, issued by the Bureau of the Census, Department of Commerce)

<b></b>	Week ended Feb. 13, 1926	Corresponding week, 1925
Policies in force	63, 364, 512	58, 621, 734
Number of death claims	10, 851	11, 708
Death claims per 1,000 policies in force, annual rate_	8. 9	10. 4

Deaths from all causes in certain large cities of the United States during the week ended February 13, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, February 16, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week en 13,	ded Feb. 1926	Annual death rate per		under 1 ear	Infant mortality
City	Total deaths	Death rate 1	1,000 corre- sponding week, 1925	Week ended Feb. 13, 1926	Corresponding week, 1925	rate, week ended Feb. 13, 1926 ²
Total (69 cities)	8, 252	14.8	14. 2	908	934	8 75
Akron. Aklanta. Aklanta. White. Colored Baltimore '. White. Colored Birmingham. White. Colored Boston. Bridgeport Buffalo. Cambridge. Camden Chicago '. Cinennati Cleveland Columbus Dallas. White. Colored Dayton Denver. Des Moines Detroit Duluth El Paso. Erio. Fall River '. Fall River '. Filmt Fort Worth White. Colored Grand Rapids Houston. White. Colored Indiana polis. White. Colored Indiana polis. White. Colored Jacksonville, Fia White. Colored Jersey City Kansas City, Kans White. Colored Jersey City Kansas City, Mo. Los Angeles. Louisville	\$\ 252 \\ \$\ 411 \\ \$\ 522 \\ \$\ 1033 \\ \$\ 1033 \\ \$\ 1034 \\ \$\ 1044 \\ \$\ 277 \\ \$\ 1006 \\ \$\ 69 \\ \$\ 322 \\ \$\ 322 \\ \$\ 322 \\ \$\ 674 \\ \$\ 151 \\ \$\ 151 \\ \$\ 1217 \\ \$\ 788 \\ \$\ 60 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 460 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\ 470 \\ \$\	(2) 24. 7 (2) 14. 3 (3) 11. 7 19. 2 12. 1 14. 5 16. 2 12. 1 13. 1 14. 5 16. 2 12. 1 14. 5 16. 2 12. 1 14. 5 16. 2 12. 1 14. 5 16. 2 12. 1 14. 5 16. 2 12. 1 14. 5 16. 2 12. 1 14. 5 16. 2 12. 1 14. 5 16. 2 12. 1 14. 5 16. 2 12. 1 15. 5 16. 2 12. 1 15. 5 16. 2 12. 1 15. 5 16. 2 12. 1 15. 5 16. 2 12. 1 15. 5 16. 2 12. 1 15. 5 16. 2 12. 1 15. 5 16. 2 12. 1 15. 5 16. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2 17. 2	14. 2  17. 7  18. 3  19. 3  14. 8  14. 8  16. 2  12. 0  16. 7  10. 3  13. 0  18. 9  11. 7  17. 6  12. 9  11. 7  19. 9  11. 7  11. 7  12. 1  14. 7  15. 9  14. 2	6 6 3 3 14 4 10 10 129 112 29 26 8 81 6 6 32 2 7 5 5 10 10 10 10 10 10 10 10 10 10 10 10 10	5 5 13 37 37 36 6 6 11 20 6 6 11 56 8 8 2 4 4 7 7 3 3 5 6 6 5 5 6 6 6 6 7 7 9 9 11 1 5 6 6 7 7 9 9 11 1 5 6 7 7 9 9 11 1 5 6 7 7 9 9 11 1 5 6 7 7 7 9 9 11 1 1 5 6 7 7 7 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	79
White Colored Lowell Lynn Memphis White	56 20 25 29 71 42	(5) 11.8 14.7 21.2	11.3 12.1 20 0	9 8 1 3 2 6 3	5 3 6	80 63 56 50

Annual rate per 1,000 population.
 Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1924. Cities left blank are not in the registration area for births.

estimated births for 1924. Cities left blank are not in the registration area for births.

3 Data for 64 cities.

4 Deaths for week ended Friday, Feb. 12, 1926.

5 In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentage of the total population: Atlanta 31, Baltimore 15, Birmingham 33, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 28, Norfolk 38, Richmond 32, and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended February 13, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, February 16, 1926, issued by the Bureau of the Census, Department of Commerce)—Continued

		ded Feb. 1926	Annual death rate per	Deaths under 1 year		Infant mortality rate,	
City	Total deaths	Death rate	1,000 corre- sponding week, 1925	Week ended Feb. 13, 1926	Corre- sponding week, 1925	week ended Feb. 13, 1926	
Milwaukee	118	12.3	11.7	11	26	51	
Minneapolis Nashville	85 37	10.4	12 4 14. 2	12 6	15	67	
White	20	14. 2	14. 2	4	0		
Colored	17	(5)		$\hat{2}$			
New Bedford	25	10.9	12.6	2 5 7	5	87	
New Haven	52	15.2	. 14, 6		6	96	
New Orleans White	290 191	36. 5	26.0	35 19	18		
Colored	99	(5)		16			
New York	1,599	(5) 14. 2	14.7	171	184	69	
Brony Boyough	181	10.8	10.2	18	13	60	
Brooklyn Borough Manhattan Borough	541 679	12.8 18.2	13.8	63	66	64	
Queens Borough	137	10.0	19.3 10.0	66 19	92 11	73	
Queens Borough Richmond Borough	61	23.0	17.3	5	2	86 88	
Newark, N. J.	119	13.7	12.1	12	18	57	
Norfolk	31			1 1	12	19	
White Colored	18 13	(5)		0		30	
Oakland	63	(5) 12.9	12,9		5	104	
Oklahoma City	29			9	2		
Omaha	48	11.8	17.0	6	8	63 87 76	
Paterson Philadelphia	34 564	12.5	15.8	5	_5	87	
Pittsburgh	164	14.9 13.5	15.6 14.5	57 24	57 20	76 80	
Portland, Oreg	86	15.9	9.4	3	3	31	
Providence	73	14.2	12.3	12	10	100	
Richmond	89	24.9	20.7	5 3 2	6	63	
White	53 36			3		59 70	
Rochester	69	(5) 11.4	11. 2	6	5	48	
St. Louis	226	14.3	12.4	20	18	10	
St. Paul	55	11.7	10.4	3	3	27	
Sait Lake City 4 San Antonio	65	25.9	12.7	.7	5	97	
San Diego	85 36	22.4 17.7	14. 5 16. 2	15	6 2	42	
San Francisco	162	15. 2	13. 1	3	14	18	
Schenectady	24	13. 5	9.0	2 3 2 2 3 3 2 7 3	0	58	
Seattle Somerville	80			2	2 4	19	
Spokane	20 33	10. 5 15. 8	14.7 12.9	3	4	78 70	
Spokane Springfield, Mass	36	13. 2	14.7	2	6 5	70 29	
Syrucuse	46	13. 2	13.2	7	6	88	
Tacoma	24	12.0	10.0	3	0	70	
Toledo	82 46	14. 9 18. 2	11.8	9	11	87	
Utica	29	14.9	19.4 11.8	9	7	150 22	
Washington D C	166	17.4	15.7	8	2	45	
White	106			2 6		17	
Colored	60	(5)		6		100	
Waterbury Wilmington, Del	24 27	11.5		5 3	1	107	
YY OF CESTER	47	12.8	18, 4 13, 4	3	8 7	70 35	
**	27 32		9.6	3	(1		
Yonkers Youngstown	21	12, 4	9.01	3.0	4	67	

See footnotes 4 and 5 on p. 385.

### PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

### UNITED STATES

#### CURRENT WEEKLY STATE REPORTS

These reports are preliminary and the figures are subject to change when later returns are received by the State health officers

#### Reports for Week Ended February 20, 1926

ALABAMA	Cases	AREANSAS—continued	Cases
Cerebrospinal meningitis	2	Pellagra	
Chicken pox	-	Poliomyelitis	. 1
Diphtheria		Scarlet fever	. 5
Influenza.		Smallpox	
Lethargic encephalitis		Trachoma	. 1
Malaria		Tubereulosis	. 4
Measles	-	Typhoid fever	. 3
		Whooping cough	
Mumps.		w nooping congit	. 44
Ophthalmia neonatorum	-		
Pellagra		CALIFORNIA	
Pneumonia		Chamber and an animately	
Scarlet fever		Gerebrospinal meningitis:	_
Smallpox		Los Angeles	
Tetanus	-	Oakland	
Trachoma		Sacramento	
Tuberculosis		San Diego	. 1
Typhoid fever		Sutter County	
Typhus fever		Chicken pox.	
Whooping cough	. 24	Diphtheria	. 119
ARIZONA		Influenza	
Chicken pox	. 12	Lethargic encephalitis—San Francisco	-
Diphtheria		Measles	
Influenza		Munips.	299
Mumps		Poliomyelitis.	
Pneumonia.		Los Angeles County	
Scarlet fever		Salinas	
Trachoma		San Joaquin County	
Tuberculosis		Whittier	
T mpercarosis		Scarlet fever	_ 137
ARKANSAS		Smallpox:	
Chicken pox	. 19	Los Angeles	_ 41
Diphtheria	. 1	Los Angeles County	
Influenza.	. 214	Oakland	, 28
Malaria	. 19	San Francisco	_ 16
Measles		Scattering	
Mumps		Typhoid fever	
Ophthalmia neonatorum.		Whooping cough	
		* has	

COLORADO	1	GEORGIA	Cases
	Cases		26 26
Chieken pox	100	Chicken pox	9
Diphtheria		Diphtheria	3
Influenza		Dysentery	3
Measles		Influenza	
Mumps		Malaria	14
Pneumonia	- 1	Measles.	80
Scarlet fever Septic sore throat	- 1	Mumps.	63
Tuberculosis		Pellagra	5
Typhoid fever		Pneumonia.	191
Whooping cough		Scarlet fever	10
11.100 P.100		Septic sore throat	5
CONNECTICUT		Smallpox	10
CONNECTICE 1		Tuberculosis	
Anthrax		Typhoid fever	
Chicken pox		Whooping cough	20
Diphtheria		<b>І</b> ДАНО	
German measles		<b>,</b>	
Influenza		Cerebrospinal meningitis:	
Lethargic encephalitis		American Falls	
Measles	787	Orofino	
Mumps		Chicken pov	
Paratyphoid fever		DiphtheriaInfluenza	
Pneumonia (broncho)  Pneumonia (lobar)		Measles.	
Scarlet fever		Mumps	
Septic sore throat		Pneumonia (bioncho)	
Tuberculosis (all forms)		Scarlet fever	
Typhoid fever		Septic sore throat	
Whooping cough		Tuberculosis	
		Typhoid fever	
DEI AWARE		Whooping cough	
	_		
Chieken pox		ILLINOIS	
Diphtheria		Cerebrospinal meningitis.	
Mensles		Cook County	
Scarlet fever		Lee County	
Tuberculosis Whooping cough		Whiteside County	
whooping cough	- "	Diphtheria	
		Lethargic encephalitis	. 4
DISTRICT OF COLUMBIA		Cook County	
Chicken pox	_ 21	Knox County	
Diphtheria		Lake County	
Influenza		Measles	73
Measles		Pneumonia	. 39
Pneumonia		Poliomyehtis:	, ,,,,
Scarlet fever		Cook County	
Tuberculosis		Rock Island County.	
Whooping cough	_ 8	Scarlet fever	
		Smallpox	
FLORIDA		Tuberculosis.	
Chicken por	_ 31	Typhoid fever	. 1
Diphtheria		Whooping cough.	. 17
Influenza		INDIANA	
Malaria		Chieken pox	
Measles		Diphtherla	
Mumps		Influenza	
Pneumonia		Measles Ophthalmia neonatorum	
Scarlet fever	10	Pneumonia	
Smallpox	133	Scarlet fever	
Tetanus	2	Smallpox	
Tuberculosis	6	Tuberculosis.	. 3
Typhoid fever	4	Typhoid fever	, "
Whooping cough	9	Whooping cough	. g

IOWA	ases	MARYLAND—continued	Cases
Cerebrospinal meningitis	ases 2	Tuberculosis	82
Chicken pox.	46	Typhoid fever	2
Diphtheria	20	Whooping cough	45
German measles	42	MASSACHUSETTS	
Measles	110		
Mumps	57	AnthraxChicken pox	1 194
Pneumonia.	18	Conjunctivitis (suppurative)	12
Scarlet feverSmallpox	57 49	Diphtheria	66
Tuberculosis	16	German measles	103
Whooping cough	36	Hookworm disease	1
KANSAS		Lethargic encephalitis	6
		Malaria Measles	11
Cerebrospinal meningitis—Kansas City	119	Mumps	112
Chicken pox	16	Ophthalmia neonatorum	32
German measles	1	Pneumonia (lobar)	133
Influenza	26	Scarlet fever	272
Measles.	174	Septic sore throat	3
Mumps	24	Trichinosis	1
Pneumonia	74	Tuberculosis (pulmonary)	101
Scarlet fever	79	Tuberculosis (other forms)	34 5
Smallpox	21	Typhoid fever Whooping cough	513
Tuberculosis Whooping cough	35 82	•	010
	02	MICHIGAN	
LOUISIANA		Diphtheria	91
Cerebrospinal meningitis	3	Measles	
Diphtheria	16	Pneumonia Scarlet fever	201 - 421
Influenza	152	Smallpox	4
Pneumonia Scarlet fever	65 8	Tuberculosis	39
Smallpox	88	Typhoid fever	6
Tuberculosis	33	Whooping cough	313
Typhoid fever	16	MINNESOTA	
MAINE		Chicken pox	110
Chicken pox	39	Diphtheria	40
Diphtheria	1	Influen'a.	4
German measles	12	Measles	157
Influenza	14	Pneumonia	
Measles	1 82	Scarlet fever	
Mumps	34	SmallpoxTuberculosis	10 53
Paratyphoid fever	1	Typhoid fever	
Pneumonia	21	Whooping cough	
Scarlet fever	33	MISSISSIPPI	
Tuberculosis	7		
Typhoid fever	3	Diphtheria	
Vincent's angina	1 55	Influenza Scarlet fever	
	00	Smallpox	
MARYLAND 1		Typhoid fever	
Cerebrospinal meningitis	2	MISSOURI	
Chicken pox	131		. 2
Conjunctivitis	2	Cerebrospinal meningitis	
German measles	22 4	Diphtheria	
Influenza	576	Influenza	
Measles	-	Measles	
Mumps	198	Mumps	
Paratyphoid fever	1	Ophthalmia neonatorum	. 1
Pneumonia (broncho)	145	Pneumonia	- 8
Pneumonia (lobar)	114	Rabies (in animals)	
Scarlet feverSeptic sore throat	51 4	Scarlet lover	
DODNO SOLE OHIOGO	*	. MY4017 DAY	_ 10

1 Week ended Friday.

MISSOURI-continued		NEW YORK .	
	Cases	(Exclusive of New York City)	
Trachoma			Cases
Tuberculosis		Chicken por	
Typhoid fever	. 1	Diphtheria	
Whooping cough	63	German measles	
MONTANA		Influenza	
MUNTANA		Lethargic encephalitis	
Chicken pox	. 27	Measles.	
Diphtheria	. 2	Mumps	
German measles	. 14	Pneumonia	
Influenza	. 52	Poliomyelitis	
Measles	. 23	Scarlet fever	
Mumps	42	Septic sore throat	
Scarlet fever	. 37	Typhoid fever	
Smallpox	. 1	Vincent's angina	. 10
Trachoma	. 3	Whooping cough	404
Tuberculosis.	. 2	NORTH CAROLINA	
Typhoid fever		NORTH CAROLINA	
Whooping cough	. 15	Cerebrospinal meningitis	. 1
		Chicken pox	207
NEBRASEA		Diphtheria	. 29
Chicken pox	. 28	German measles	
Diphtheria		Measles.	
German measles		Poliomyelitis	
Lethargic encephalitis		Scarlet fever	
Measles		Septic sore throat	
Mumps		Smallpox	
Pneumonia.		Typhoid fever	
Scarlet fever		Whooping cough	
Smallpox.		1	
Tuberculosis		OKLAHOMA	
Whooping cough	. 30	(Exclusive of Tulsa and Oklahoma City	)
44 HOODING COMBIT	. 50		-
NEW JERSEY		Cerebrospinal meningitis—Muskogee	
	_	Chicken pox	
Anthrax		Diphther is	
Cerebrospinal meningitis		Influenza	
Chicken pox		Malaria	
Diphtheria		Measles	
Influenza		Mumps	
Malaria		Pellagra	
Measles		Pneumonia	
Pneumonia.		Poliomyelitis-Pottawatomic County	
Scarlet fever		Scarlet fever	
Typhoid fever		Smallpox	
Whooping cough	. 88	Typhoid fever	
NEW MEXICO		Whooping cough	. 45
		OREGON	
Chicken pox			_
Conjunctivitis		Cerebrospinal meningitis	
Diphtheria		Chicken pox	
German measles		Diphtheria	
Influenza		Influenza	
Measles		Measles	
Mumps		Mumps.	
Preumonia	_ 38	Pneumonia.	. 213
Rabies (in animals)		Poliomyelitis	
Searlet fever		Scarlet fever	
Smallpox	. 2	Smallpox	
Tuberculosis	. 50	Tuberculosis	13
Typhoid fever	- 4	Typhoid fever	6
Whooping cough	_ 19	Whooping cough	64
> 2 Deaths.		1	٠.,

PENNSYLVANIA	<b>~</b>	TEXAS-Continued	a
	Cases		Cases
Anthrax—Philadelphia	1	Ophthalmia neonatorum	1
Chicken pox	688	Paratyphoid fever	1
Diphtheria	174	Pellagra	1
German measles	42	Pneumonia	237
Impetigo contagiosa	12	Scarlet fever	54
Lethargic encephalitis—Philadelphia	4	Smallpox	127
Measles	3,043	Tetanus	1
Mumps	133	Tuberculosis	64
Ophthalmia neonatorum	1	Typhoid fever	24
Pneumonia	84	Whooping cough	83
Scables.	1		
Scarlet fever	552	UTAH	
		Cerebrospinal meningitis—Salt Lake City	2
Trachoma—Philadelphia	1	Chicken pox	44
Tuberculosis	81	Diphtheria	11
Typhoid fever	32	Influenza	
Vincent's angina	1		31
Whooping cough	318	Measles	3
		Mumps	26
RHODE ISLAND		Pneumonia	9
a		Scarlet fever	7
Cerebrospinal meningitis—Coventry	1	Smallpox	7
Chicken pox	5	Whooping cough	31
Diphtheria	5		
German measles	3	VERMONT	
Influenza	2	Chicken pox	20
Measles.	399	Diphtheria	1
Pneumonia	1	Measles	6
Scarlet fever	10	Mumps	12
Whooping cough	2	Scarlet fever	20
Whooping congnitional	-	Whooping cough	22
SOUTH DAKOTA		<del>-</del> ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
Chicken pox	18	Washington	
Diphtheria	6	Cerebrospinal meningitis:	
	17	Seattle	4
Measles	17	SeattleSpokane	4 2
Measles Mumps	89	Spokane	2
Measles Mumps Pneumonia.	89 7	Spokane County Spokane County	2 1
Measles           Mumps           Pneumonia           Scarlet fever	89 7 124	Spokane Spokane County Chicken pox	2 1 81
Measles Mumps Pneumonia.	89 7 124	Spokane Spokane County Spokane County Chicken pox Diphtheria	2 1 81 21
Measles           Mumps           Pneumonia           Scarlet fever	89 7 124 1	Spokane Spokane County Spokane County Chicken pox Diphtheria German measles	2 1 81 21 37
Measles.  Mumps Pneumonia. Scarlet fever. Smallpox.	89 7 124 1	Spokane Spokane County Spokane County Diphtheria Gorman measles Measles	2 1 81 21 37 26
Measles Mumps Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough	89 7 124 1	Spokane Spokane County Chicken pox Diphtheria German measles Measles Mumps	2 1 81 21 37
Measles           Mumps           Pneumonia           Scarlet fever           Smallpox           Typhoid fever	89 7 124 1	Spokane Spokane County Spokane County Diphtheria Gorman measles Measles	2 1 81 21 37 26
Measles Mumps Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough	89 7 124 1	Spokane Spokane County Chicken pox Diphtheria German measles Measles Mumps	2 1 81 21 37 26 165
Measles Mumps Pneumonia Scarlet fever Smallpox Typhoid fever. Whooping cough TENNESSEE Chicken pox.	89 7 124 1 1 1	Spokane Spokane County Spokane County Chicken pox Diphtheria German measles Massles Mumps Scarlet fever Smallpox:	2 1 81 21 37 26 165 97
Measles Mumps Pneumonia Scarlet fever Smallpox Typhoid fever. Whooping cough TENNESSEE Chicken pox. Diphtheria	89 7 124 1 1 1 100 14	Spokane Spokane County Spokane County Diphtheria German measles Measles Mumps Scarlet fever Smallpox:	2 1 81 21 37 26 165 97
Measles Mumps Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough TENNESSEE Chicken pox. Diphtheria. Influenza.	89 7 124 1 1 1 1 100 14 221	Spokane Spokane County Spokane County Chicken pox Diphtheria German measles Measles Scarlet fever Smallpox:  Everett Seattle	2 1 81 21 37 26 165 97
Measles Mumps Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough TENNESSEE Chicken pox. Diphtheria. Influenza. Malaria.	89 7 124 1 1 1 1 100 14 221 2	Spokane Spokane County Chicken pox Diphtheria German measles Measles Mumps Scarlet fever Smallpox Everett Seattle Tacoma	2 1 81 21 37 26 165 97
Measles Mumps Pneumonia Scarlet fever. Smallpox Typhoid fever. Whooping cough TENNESSEE Chicken pox Diphtheria Influenza. Malaria Measles	89 7 124 1 1 1 100 14 221 2 338	Spokane Spokane County Spokane County Chicken pox Diphtheria German measles Massles Mumps Scarlst fever Smallpox:  Everett Seattle Tacoma Scattering Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane Spokane S	2 1 81 21 37 26 165 97 17 11 20 44
Measles Mumps Pneumonia Scarlet fever Smallpox Typhoid fever Whooping cough  TENNESSEE Chicken pox Diphtheria Influenza Malaria Measles Mumps	89 7 124 1 1 1 100 14 221 2 338 21	Spokane Spokane County Chicken pox Diphtheria German measles Measles Mumps Scarlet fever Smallpox: Everett Seattle Tacoma Scattering Tuberculosis	2 1 81 21 37 26 165 97 17 11 20 44 13
Measles Mumps Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  TENNESSEE Chicken pox. Diphtheria. Influenza. Malaria. Measles Mumps. Pellagra.	89 7 124 1 1 1 1 100 14 221 2 338 21 3	Spokane Spokane County Chicken pox Diphtheria German measles Measles Mumps Scarlet fever Smallpox: Everett Seattle Tacoma Scattering Tuberculosis Typhoid fever	2 1 81 21 37 26 165 97 17 11 20 44 13 3
Measles Mumps Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  TENNESSEE Chicken pox. Diphtheria. Influenza. Malaria Measles Mumps Pellagra Pneumonia.	89 7 124 1 1 1 100 14 221 2 338 21 3 158	Spokane Spokane County Chicken pox Diphtheria German measles Measles Mumps Scarlet fever Smallpox: Everett Seattle Tacoma Scattering Tuberculosis	2 1 81 21 37 26 165 97 17 11 20 44 13 3
Measles Mumps Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  TENNESSEE Chicken pox. Diphtheria. Influenza. Malaria. Measles Mumps. Pellagra.	89 7 124 1 1 1 100 14 221 2 338 21 3 158	Spokane Spokane County Chicken pox Diphtheria German measles Measles Mumps Scarlet fever Smallpox: Everett Seattle Tacoma Scattering Tuberculosis Typhoid fever Whooping cough	2 1 81 21 37 26 165 97 17 11 20 44 13 3
Measles Mumps Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  TENNESSEE Chicken pox. Diphtheria. Influenza. Malaria Measles Mumps Pellagra Pneumonia.	89 7 124 1 1 1 100 14 221 2 338 21 3 158	Spokane Spokane County Chicken pox Diphtheria German measles Measles Mumps Scarlet fever Smallpox: Everett Seattle Tacoma Scattering Tuberculosis Typhoid fever Whooping cough	2 1 81 21 37 26 165 97 17 11 20 44 13 3 50
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Measles Mumps Pneumonia Scarlet fever. Smallpox Typhoid fever. Whooping cough  TENNESSEE Chicken pox Diphtheria Influenza. Malaria. Measles Mumps. Pellagra Pneumonia. Scarlet fever. Smallpox:	89 7 124 1 1 1 100 14 221 2 338 21 3 158 43	Spokane Spokane County Spokane County Chicken pox Diphtheria German measles Mumps Scarlet fever Smallpox:  Everett Seattle Tacoma Scattering Tuberculosis Typhoid fever Whooping cough WEST VIRGINIA Diphtheria Scarlet fever	2 1 81 21 37 26 165 97 17 11 20 44 13 3 50
Measles Mumps Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  TENNESSEE  Chicken pox. Diphtheria. Influenza. Malaria. Measles Mumps. Pellagra. Pneumonia. Scarlet fever. Smallpox: Memphis. Scattering.	89 7 124 1 1 1 100 14 221 2 338 21 3 158 43	Spokane Spokane County.  Chicken pox Diphtheria German measles Measles Mumps Scarlet fever Smallpox: Everett Seattle Tacoma Scattering Tuberculosis Typhoid fever Whooping cough West Virginia Diphtheria	2 1 81 21 37 26 165 97 17 11 20 44 13 3 50
Measles Mumps Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  TENNESSEE Chicken pox. Diphtheria. Influenza. Malaria. Measles. Mumps Pellagra. Pneumonia. Scarlet fever. Smallpox: Memphis. Scattering. Tetanus.	89 7 124 1 1 1 100 14 221 2 338 21 3 158 43	Spokane Spokane County.  Chicken pox Diphtheria German measles Measles Mumps Scarlet fever Smallpox: Everett Seattle Tacoma Scattering Tuberculosis Typhoid fever Whooping cough West Virginia Diphtheria Scarlet fever Typho d fever	2 1 81 21 37 26 165 97 17 11 20 44 13 3 50
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Measles Mumps Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  TENNESSEE Chicken pox. Diphtheria. Influenza. Malaria. Measles Mumps. Pellagra. Pneumonia. Scarlet fever. Smallpox: Memphis. Scattering. Tetanus. Tuberculosis. Typhoid fever.	89 7 124 1 1 1 100 14 221 2 338 21 3 158 43 15 7 1 49 1	Spokane Spokane County Spokane County Spokane County Chicken pox Diphtheria German measles Mumps Scarlet fever Smallpox:  Everett Seattle Tacoma Scattering Tuberculosis Typhoid fever Whooping cough WEST VIRGINIA Diphtheria Scurlet fever Typho'd fever Wisconsin Milwaukee:	2 1 81 21 37 26 165 97 17 11 20 44 13 3 50
Measles Mumps Pneumonia Scarlet fever. Smallpox. Typhoid fever. Whooping cough  TENNESSEE Chicken pox. Diphtheria Influenza. Malaria. Measles Mumps Pellagra Pneumonia. Scarlet fever. Smallpox: Memphis Scattering Tetanus. Tuberculosis	89 7 124 1 1 1 100 14 221 2 338 21 3 158 43 15 7 1 49 1	Spokane Spokane County.  Chicken pox Diphtheria German measles Measles Mumps Scarlet fever Smallpox: Everett Seattle Tacoma Scattering Tuberculosis Typhoid fever Whooping cough West Virginia Diphtheria Scurlet fever Typho'd fever Whooping cough Milwaukee: Cerebrospinal myningitis	2 1 81 21
Measles Mumps Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  TENNESSEE Chicken pox. Diphtheria. Influenza. Malaria. Measles Mumps. Pellagra. Pneumonia. Scarlet fever. Smallpox: Memphis. Scattering. Tetanus. Tuberculosis. Typhoid fever.	89 7 124 1 1 1 100 14 221 2 338 21 3 158 43 15 7 1 49 1	Spokane Spokane County Spokane County Chicken pox Diphtheria German measles Measles Mumps Scarlet fever Smallpox:  Everett Seattle Tacoma Scattering Tuberculosis Typhoid fever Whooping cough WEST VIRGINIA Diphtheria Scurlet fever Typho'd fever Wisconsin Milwaukee: Cerebrospinal myningitis Chicken pox	2 1 81 81 21 37 26 65 97 17 11 200 44 13 3 50 6 6 6 8 8 6 8 8 6
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Measles Mumps Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  TENNESSEE  Chicken pox. Diphtheria. Influenza. Malaria. Measles Measles Mumps. Pellagra. Pneumonia. Scarlet fever. Smallpox: Memphis. Scattering. Tetanus. Tuberculosis Typhoid fever. Whooping cough.	89 7 124 1 1 1 100 14 221 2338 21 3 158 43 15 7 1 49 1 20	Spokane Spokane County Spokane County Chicken pox Diphtheria German measles Measles Mumps Scarlet fever Smallpox:  Everett Seattle Tacoma Scattering Tuberculosis Typhoid fever Whooping cough West Virginia Diphtheria Scurlet fever. Typho'd fever Wisconsin Milwaukee:  Cerebrospinal maningitis Chicken pox Diphtheria Measles	2 1 81 211 81 27 26 165 97 17 11 20 44 46 6 6 86 88 18 49 49
Measles Mumps Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  TENNESSEE  Chicken pox. Diphtheria. Influenza. Malaria. Measles Mumps Pellagra. Pneumonia. Scarlet fever. Smallpox: Memphis. Scattering. Tetanus. Tuberculosis Typhoid fever. Whooping cough.  TEXAS Anthrax. Cerebrospinal meningitis.	89 7 124 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Spokane Spokane County.  Chicken pox Diphtheria German measles Measles Mumps Scarlet fever Smallpox: Everett Seattle Tacoma Scattering Tuberculosis Typhoid fever Whooping cough West Virginia Diphtheria Scurlet fever Typho'd fever Whote Milwaukee: Cerebrospinal moningitis Chicken pox Diphtheria Measles Mumps .	2 1 81 21 81 21 65 97 17 11 20 44 13 3 50 6 6 2 2 8 86 49 99 99 99 99 99 99 99 99 99 99 99 99
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Measles Mumps Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  TENNESSEE Chicken pox. Diphtheria. Influenza. Malaria. Measles. Mumps Pellagra. Pneumonia. Scarlet fever. Smallpox: Memphis. Scattering. Tetanus. Tuberculosis Typhoid fever. Whooping cough.  TEXAS Anthrax Cerebrospinal meningitis. Chicken pox.	89 7 124 1 1 1 100 14 221 2 338 21 3 158 43 15 7 1 49 1 20 4 21 189 66	Spokane Spokane County Chicken pox Diphtheria German measles Measles Mumps Scarlet fever Smallpox: Everett Seattle Tacoma Scattering Tuberculosis Typhoid fever Whooping cough WEST VIRGINIA Diphtheria Scurlet fever. Typho'd fever Wisconsin Milwaukee: Cerebrospinal myningitis Chicken pox Diphtheria Measles Mumps Pneumonia Scarlet ever Tuber u osis	2 1 81 211 81 37 26 165 97 17 11 20 44 49 6 6 8 18 49 9 9 18 18 8 27 18 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18
Measles Mumps Pneumonia Scarlet fever. Smallpox. Typhoid fever. Whooping cough  TENNESSEE Chicken pox. Diphtheria Influenza. Malaria Measles Mumps Pellagra Pneumonia Scarlet fever. Smallpox: Memphis Scattering Tetanus. Tuberculosis Typhoid fever. Whooping cough  TEXAS Anthrax. Cerebrospinal meningitis Chicken pox. Diphtheria	89 7 124 1 1 1 100 14 221 2 338 21 3 158 43 155 7 1 49 1 20 4 2 1 189 66 1,789	Spokane Spokane County Chicken pox Diphtheria German measles Measles Mumps Scarlet fever Smallpox: Everett Seattle Tacoma Scattering Tuberculosis Typhoid fever Whooping cough  WEST VIRGINIA Diphtheria Scurlet fever Typho'd fever  Wisconsin Milwaukee: Cerebrospinal moningitis Chicken pox Diphtheria Measles Mumps Pneumonia Scarlet ever	2 1 81 81 81 81 81 81 81 81 81 81 81 81 8

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#### Report for week ended February 13, 1926

NORTH DAKOTA	Cases	NORTH DAKOTA—continued	Cases
Chicken pox	20	Pneumonia	15
Diphtheria		Scarlet fever	
German measles	42	Smallpox	13
Influenza	8	Tuberculosis	3
Measles	34	Typhoid fever	1
Mumps	70	Whooping cough	14

#### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Cere- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
August, 1925 North Carolina January, 1926	1	276			17		28	83	39	300
Delaware District of Columbia Louisiana New Jersey North Dakota Tennessee Vermont West Virginia Wisconsin	0 0 0 5 2 3 0 4 4	24 132 106 441 28 70 19 121 218	13 19 308 124 18 615 0 161 169	0 0 0 19 0	180 99 4 5, 217 60 838 43 461 630	0 0 10 22	0 0 1 3 6 2 1	34 114 46 927 383 151 86 242 768	0 0 181 2 27 49 0 31 70	1 78 38 8 26 3 39 18

#### SMALLPOX ON VESSEL

The Coast Guard cutter Saukee was reported at Key West, Fla., February 23, 1926, with a member of the crew ill with smallpox. The entire crew has been vaccinated.

### PNEUMONIA (ALL FORMS) AND INFLUENZA

Deaths reported in large cities of the United States during three-week periods ended February 14, 1925, and February 13, 1926

#### PNEUMONIA (ALL FORMS)

			Week e	nded—		
	Jan. 31, 1925	Jan. 30, 1926	Feb. 7, 1925	Feb. 6, 1926	Feh 14, 1925	Feb. 13, 1926
Atlanta Baltimore Birmingham Boston Bridgeport Buffalo Cambridge, Mass Camden Canton Chicago Cincinnati Cleveland Columbus Dallas Denver Detroit Duluth Elizabeth El Paso Erie Fall River Fall River Fall River Filit Fort Worth Grand Rapids Hartford Houston Indianapolis Kansas City, Mo Los Angeles Lowell Lynn Memphis Minneapolis Nashville Lowell Lynn Memphis Minneapolis Nashville New Bedford New Haven New Orleans New York Newark Norfolk Oakhand Oklahoma City Omaha Philadelphia Pritsburgh Portland, Ore Providence Reading Richmond Rochester St. Panl Salt Lake City San Antonio Sar Diego San Francisco Schenectady Somervilke Springfield Muss Synacuse Tacoma Toledo Trenton Washington Waterbury Wilmington, Del Worcesfer Youngstown	1925  13 44 43 15 55 57 77 14 22 22 22 21 10 10 11 118 42 20 20 20 20 20 21 21 22 20 20 20 21 21 22 20 20 20 21 21 21 20 20 20 21 21 21 20 20 20 21 21 21 20 20 20 21 21 21 20 20 20 20 21 21 21 20 20 20 20 20 20 20 20 20 20 20 20 20	1926 12 69 13 299 15 4 11 3 62 100 29 15 66 49 9 3 77 22 22 62 25 163 29 29 63 22 57 11 5 66 23 1 1 5 7 7 4 7 7 8 8 6 14 5 200 2 2 2 2 3 3 1 1 1 5 4 6 6 6 3	1925  13 13 148 15 148 18 18 18 18 11 12 17 17 23 13 35 14 47 77 15 16 66 67 17 13 11 11 11 11 11 11 11 11 11 11 11 11	16 752 29 56 66 31 5 31 4 40 21 30 24 31 40 40 40 41 40 40 40 41 40 40 40 40 40 40 40 40 40 40 40 40 40	1925 19 50 17 44 42 3 6 9 4 22 3 6 9 4 22 3 6 9 4 22 3 6 9 4 22 3 6 9 4 22 3 6 9 4 22 3 6 9 4 22 15 5 3 11 11 12 12 28 27 1 10 6 6 6 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1926  19 83 8 82 8 82 8 82 8 8 82 8 8 8 8 8 8 8

Deaths reported in large cities of the United States during three-week periods ended February 14, 1925, and February 13, 1926—Continued

#### INFLUENZA

			Week er	ded—		
	Jan 31, 1925	Jan. 30, 1926	Feb. 7, 1925	Feb. 6, 1926	Feb. 14, 1925	Feb. 13, 1926
Atlanta Baltimore	12	1 8 6	7 3 8 7	4 30	5 7	2
Birmingham	4	6	8	7 2	2 3	
Boston	2 3	1	7	2	3	
Bridgeport	3		1	1 1	1	•
Buffalo Cambridge, Mass		1	1		i	
Camden		2				
Canton				1	1	
Chicago Cincinnati	3	1 6	4 4 2 2	1 7 1 4	1 3 6 3 3	
Cleveland	0		2	4	6	
Columbus	2	1 4	2	ī	3	
Dallas	4	1	5	4	3	1
Denver	1	1	4 2	11	3 5	1
Detroit Duluth	4		2		0	
Elizabeth		1				
El Paso	6	14	9	2	17	1
Erie	- 1	2 2		2	i	
Fall RiverFlipt	2	2	, 1		1	
Fort Worth	2				1 1	
Grand Rapids Hartford		2			1	
Hartford		1	4		2 6	
Houston Indianapolis Kansas City, Mo Los Angeles		1	1 2 8 6	3 3 9	9	
Kansas City Mo	7	3	8	3	2 5	
	2 7 3	1 2 3 3	6	9	i	
Louisville	1	1		2		
Lowell						
Lynn Memphis	4	3		2	3	
Minneapous	i	ĭ	1	I .		
Nashville New Bedford	3	1 3	1 2	8	2	
New Bedford New Haven						
New Orleans	8	26	2 8	2 26 23	11	4
New York	16	18	26	23	30	2
Newark	2		1			
Norfolk			2	5	1	
Oakland Oklahoma City	2		2	0	2	
Philadelphia	5 7	10	14	13	9	
Pittsburgh	7	4	6	3	3	
Portland, Oreg Providence	1	2			2	
Reading	1		11		ī	
Richmond	2	2	3		3	
Rochester				1 1		
St. Paul Salt Lake City	.{	2 7 2 1		5	1	
San Antonio	4	2	4	4	3	
San Antonio San Diego San Francisco	4	ī	1	1.		
San Francisco	2	13	4	8		
Schenectady Somerville					1	
Springfield, Mass	3		4		i	
Syracuse						
Tacoma						
Toledo		3				
Trenton Washington	1	3 2	5	1	2	
Waterbury	1	4	1	1		
Waterbury Wilmington, Del						
WorcesterYoungstown						
	. 1	2	1	1	1	

#### PLAGUE-ERADICATIVE MEASURES IN THE UNITED STATES

The following items were taken from the reports of plague-eradicative measures from the cities named:

$Los \ Angeles, \ Calif.$	
Week ended Feb. 6, 1926:	
Number of rats trapped	2,856
Number of rats found to be plague infected	0
Number of squirrels examined	584
Number of squirrels found to be plague infected	0
Number of mice trapped	3,249
Number of mice found to be plague infected	0
Date of discovery of last plague-infected rodent, Nov. 6, 1925.	
Date of last human case, Jan. 15, 1925.	
Oakland, Calif.	
(Including other East Bay communities)	
Week ended Feb. 6, 1926:	
Number of rats trapped	459
Number of rats found to be plague infected	0
Totals:	
Number of rats trapped Jan. 1, 1925, to Feb. 6, 1926	81, 586
Number of rats found to be plague infected	21
Number of squirrels examined May 1 to Aug. 1, 1925	7, 277
Number of squirrels found to be plague infected	0
Number of mice trapped Jan. 1, 1925, to Feb. 6, 1926	32, 108
Date of discovery of last plague-infected rat, Mar. 4, 1925.	
Date of last human case, Sept. 10, 1919.	

### GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended February 6, 1926, 37 States reported 1,312 cases of diphtheria. For the week ended February 7, 1925, the same States reported 1,740 cases of this disease. One hundred and one cities, situated in all parts of the country and having an aggregate population of more than 30,300,000, reported 776 cases of diphtheria for the week ended February 6, 1926. Last year for the corresponding week they reported 965 cases. The estimated expectancy for the secities was 1,119 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-four States reported 12,770 cases of measles for the week ended February 6, 1926, and 2,706 cases of this disease for the week ended February 7, 1925. One hundred and one cities reported 8,594 cases of measles for the week this year and 1,384 cases last year.

Poliomyelitis.—The health officers of 38 States reported 23 cases of poliomyelitis for the week February 6, 1926. The same States reported 18 cases for the week ended February 7, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-seven States—this year, 4,262 cases; last year, 4,482 cases. One hundred and one cities—this year, 1,735 cases; last year, 2,271 cases; estimated expectancy, 1,283 cases.

Smallpox.—For the week ended February 6, 1926, 37 States reported 1,059 cases of smallpox. Last year for the corresponding week they reported 1,312 cases. One hundred and one cities reported smallpox for the week as follows: 1926, 276 cases; 1925, 420 cases; estimated expectancy, 121 cases. Nine deaths from smallpox were reported by these cities for the week this year—8 at Los Angeles, Calif., and 1 at San Francisco, Calif.

Typhoid fever.—One hundred and seventy-one cases of typhoid fever were reported for the week ended February 6, 1926, by 36 States. For the corresponding week of 1925 the same States reported 276 cases of this disease. One hundred and one cities reported 43 cases of typhoid fever for the week this year and 73 cases for the corresponding week last year. The estimated expectancy for these cities was 41 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 94 cities, with a population of more than 29,600,000, as follows: 1926, 1,365 deaths; 1925, 1,356.

#### City reports for week ended February 6, 1926

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include severy epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

		0141	Dipht	heria	Influ	ienza.			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	2762	Mumps, cuses re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine:							1	1	
Portland	75, 333	-	2	0	,	0	9		3
New Hampshire:	10,000	-	-	•	1 1		9	4	8
Concord	22, 546	0	0	. 0	0	0	6	0	
Vermont:	,010	, ,	•	. •			٠,	, ,	
Barre	10,008	0	0	0	0	0	0	0	0.4
Burlington	24, 089	1	1	ŏ	lă	ŏ	l ŏ	ŏ	ĭ
Massachusetts:	,	- 1					1	1	
Beston	779, 620	67	67	11	0	2	172	23	20
Fall River	128,993	4	6	4	l i	2	66	l õ	29 3
Springfield	142,065	4 1 2	4	1	2	Ō	72	ľ	ă
Worcester	190,757	2	5	14	l ō	ĺ	79	Ī	3 12
Rhode Island:	· ·				1			•	
Pawtucket	69,760	4	1	0	9	0	45	0	5
Providence	267. 918	0	12	3	0	i n	418	i n	à

### City reports for week ended February 6, 1936—Continued

			Dipht	heria	Influ	lenza			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND-contd.									
Connecticut Bridgeport Hartford New Haven	(1) 160, 197 178, 927	2 12 10	9 8 4	1 6 1	1 0 1	1 0 2	44 73 37	1 1 1	5 10 5
MIDDLE ATLANTIC									
New York: Buffalo New York Rochester Syracuse New Jersey	538, 016 5, 873, 356 316, 786 182, 003	33 168 28 30	18 223 9 8	11 128 16 3	0 58 0 0	1 23 1 0	11 1, 759 89 12	1 38 1 41	16 254 4 4
New Jersey. Camden Newark Trenton	128, 642 452, 513 132, 020	8 66 5	4 21 6	7 14 0	1 3 3	0 0 0	17 336 2	0 5 1	9 16 5
Pennsylvania: Philadelphia Pittsburgh Reading	1, 979, 364 631, 563 112, 707	156 42 8	S1 22 4	58 20 2	1 0	13 3 0	457 23 1	10 3 0	95 22 3
EAST NORTH CENTRAL	1								
Ohio Cincinnati Cleveland Columbus Toledo	409, 333 936, 485 279, 836 287, 380	14 35 16 - 35	10 31 4 7	4 39 1 4	0 1 0 0	1 4 1 0	4 1, 271 38 48	2 0 0	19 31 5
Indiana: Fort Wayne Indianapolis South Bend Terre Haute	97, 846 358, 819	9 19 10 2	4 12 1 1	2 4 1 0	0 0 0	0 3 0 0	334 0 1	0 2 0 0	24 24 4 1
Illinois: Chicago Peoria Springfield	2, 995, 239 81, 564	112 6 6	114 1 2	54 0 2	10 0 0	7 0 0	108 5 2	23 16 5	66 4 2
Michigan. Detroit Flint Grand Rapids		72 16 4	63 7 4	41 1 2	2 0 0	0 0 0	1,312 16 9	3 3 2	39 4 2
Wisconsin: Madison Milwaukee Racine Superior	67, 707	5 89 9 0	1 19 2 0	0 23 1 0	0 2 1 0	0 1 0 0	39 23 1 0	2 24 0 0	0 9 3 0
WEST NORTH CENTRAL			Ì						
Minnesota. Duluth Minneapolis St. Paul	119, 502 425, 435 246, 001	8 81 31	2 21 14	2 23 4	0 0	0 0 5	39 6	0 1 5	1 11 13
Davenport Des Moines Sioux City Waterloo	(1) (1) (1)	2 0 6 5	1 3 1 0	0 4 2 4	0.0		0 2 1 2	0 0 0 2	
Missouri: Kansas City St. Joseph St Louis North Dakota	367, 481	41 4 34	10 3 48	2 1 68	3 0 1	3 0	88 0 17	8 0 5	13 5
Grand Forks	_  26,403	0	0	6.	0	0	19	32 0	
South Dakota: Aberdeen Sioux Falls	15, 036 30, 127	0	0	0	0	0	0	0	0
Nebraska: Lincoln Omaha	60, 941 211, 768	2 21	2	0 2	0				
Kansas: Topeka Wichita	55, 411 88, 367	16		200	0	1 0			

¹ No estimate made.

City reports for week ended February 6, 1926-Continued

			Diphi	heria	Influ	ienza			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
SOUTH ATLANTIC									
Delaware: Wilmington Maryland:	122, 049	9	2	4	0	0	61	0	7
Baltimore Cumberland Frederick District of Columbia.	796, 296 33, 741 12, 035	75 0 0	31 0 1	17 0 0	948 0 0	30 0 0	1, 198 5 7	155 0 2	75 4 0
Washington Virginia:	497, 906	41	17	30	10	1	24	0	36
Lynchburg Norfolk Richmond Roanoke West Virginia:	30, 395 (1) 186, 403 58, 208	24 12 7 1	2 2 4 2	3 0 4 1	000	0 0 0	1 0 0 5	1 2 11 4	2 5 10 4
Charleston Huntington Wheeling North Carolina	49, 019 63, 485 56, 208	1 0 4	2 0 1	0 0 0	0 0 0	0 1 0	0 6 2	0 0 0	1 1 1
Raleigh	30, 371 37, 061 69, 031	12 11 8	0 1 0	1 0 1	0 0 0	0 0 0	1 0 54	0 0 0	2 0 3
Charleston Columbia Greenville Georgia:	73, 125 41, 225 27, 311	0 5 4	1 0 0	2 1 0	0 0 0	1 0 0	0 0 1	0 1 0	0 0 1
Atlanta Brunswick Savannah Florida:	(¹) 16,809 93,134	6 10 6	2 0 1	6 0 1	329 0 50	4 0 0	12 0 2	1 0 2	16 0 13
St. Petersburg Tampa	26, S47 94, 743	2	0	ö	0	0	ō-	2	4 3
EAST SOUTH CENTRAL									
Kentucky: Covington Louisville Tennessee:	58, 309 305, 935	9 4	1 8	0 2	0 2	0 2	0 13	0	5 14
Memphis Nashville Alabama:	174, 533 136, 220	25 6	4 0	2 1	0	2 8	1 120	3 0	5 9
Birmingham Mobile Montgomery	205, 670 65, 955 46, 481	8 1 0	3 0 0	1 0 2	21 0 7	7 1 0	3 0 0	3 0 7	12 3 0
WEST SOUTH CENTRAL									
Arkansas Fort Smith Little Rock Louisiana:	31, 643 74, 216	2 0	0	1 3	0	<u>2</u>	0	0	4
New Orleans Shreveport Oklahoma:	414, 493 57, 857	0 8	13 0	9 2	112 0	26 1	1 2	0	40 U
Oklahoma City Texas:	(1)	0	1	0	8	0	0	0	1
Dallas Galveston Houston San Antonio	194, 450 48, 375 164, 954 198, 069	22 1 2 1	6 1 4 3	5 1 10 1	11 0 0 0	4 0 1 4	5 0 0	0	13 3 9 13
MOUNTAIN		-	ĺ	•			1		
Montana: Billings_ Great Falls Helena Missoula Idaho:	17, 971 29, 883 12, 037 12, 668	5 20 0 2	0 2 0 0	0 0 1 1	0 0 0	0 1 0 0	0 0 0	17 0 0	0 0 2 01
Boise	23, 042	2 f	1	o l	n l	n l	1		Å

No estimate made.

### City reports for week ended February 6, 1926-Continued

					Diph	ther	8		Influ	311 <b>Z</b> 3.			
Division, State, ar city	nd	Populatio July 1, 1925, estimateo	case	OX, OS	Cases, esti- mated expect ancy	r	ses e- ted	1	ises e- ted	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
MOUNTAIN—continu	ued												
Colorado Denyer Pueblo New Mexico.		280, 91 43, 78	7	36 7	11 3	1	7 1 0		0 0 100	11 0 5	8 0 0	1 0 4	14 3 4
Albuquerque Utah: Salt Lake City.		21, 00 130, 94	1	39	3		4		0	0	1	30	5
Nevada: Reno		12, 66	1	0	0	1	0		0	0	0	0	1
PACIFIC		,,							ĺ	·			_
Washington: Seattle Spokane Tacoma		(1) 108, 89 104, 45		36 12 0	7 5 2		3 0 4		0 0 0	<u>0</u>	3 Q 1	100 0 1	i
Oregon: Portland California:		282, 38	1	10	٤	•	7		3	0	2	8	12
Los Angeles Sacramento San Francisco		(1) 72, 26 557, 53	0	77 2 50	42 2 27	!	55 0 8		158 1 15	9 2 8	9 0 26	10 0 12	40 3 8
	Scarl	et fever	1	Smal	lpox				T	'yphoid	fever		
Division, State, and city	Cases esti- mate expect ancy	Cases d re- t- ported	Cases, esti- mated expect- ancy	Cas re- port	- 1	eaths re- rted	Tub cul- sis deat re port	o- hs	Cases esti- mate expect ancy	d re- t- porte	Deaths re- ported	re-	Deaths, all causes
NEW ENGLAND	4	é											
Maine: Portland New Hampshire: Concord	3		0		0	0		1	(	1 0	1	1	19 5
Vermont: Barre Burlington	(		0		0	0		0	(				13
Massachusetts: Boston	59		0		0	0		18			1	1	228
Fall River Springfield Worcester Rhode Island:	10 11	3 4	0		0	0		1 2 1	i			12 6	. 32 46 54
Pawtucket Providence	1		0		0	0		2		0 3	8 6	5	85
Connecticut: Bridgeport Hartford New Haven	8		0		0 0	0		0	۱ ۱	0 0	) (	) 8	30 43 43
MIDDLE ATLANTIC													
New York: Buffalo New York Rochester Syracuse	25 244 14 18	1 170 1 20	0 0 0		0000	0 0 0	2 ]	8 08 2 3		9	5	1 13 0 47 1 6 0 91	1 52 1, 654 73 50
New Jersey: Camden Newark Trenton	24	10 26 5 10	000		000	0		3 7 6	l	1	o l	0 15 0 0	118
Pennsylvania: Philadelphia Pittsburgh Reading	3:	3 99 2 57 1 7	000		0	0		29 15 0	ł	0	0	1 43 0 42 0 5	180

¹ No estimate made.

¹ Pulmonary tuberculosis only.

City reports for week ended February 6, 1926—Continued

	Scarlet	fever	٠ ٤	Smallpo	x	Tuber-	Ту	phoid fe	ver	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
EAST NORTH CENTRAL											
Ohio: Cincinnati Cleveland Columbus Toledo Indiana:	12 33 11 18	31 51 21 10	1 2 1 3	1 0 0 1	0 0 0 0	15 29 7 0	0 1 0 0	2 0 0 0	0 0 0	30 61 0 18	163 237 84 66
Fort Wayne Indianapolis South Bend Terre Haute	9 2 3	13 10 2 1	0 6 1 1	0 14 7 0	0 0 0	1 13 0 0	0 0 0	0 0 0	0 0 0 0	1 34 5 0	20 101 10 20
Illinois: Chicago Peoria Springfield Michigan;	155 6 1	159 7 1	3 1 0	0	0 0	56 1 0	3 0 0	3 0 0	0 0	41 26 2	753 24 21
Detroit Flint Grand Rapids Wisconsin:	- 95 - 9 - 10	140 8 28	4 2 0	0 0	0	21 0 2	0 0	0 0 0	0	76 47 65	312 27 32
Madison Milwaukee Racine Superior WEST NORTH	3 39 6 2	5 19 0 7	1 3 2 4	0 0	0 0 0	1 3 3 0	0 1 0 0	0 0	0 0 0	2 49 20 0	7 118 24
CENTRAL Minnesota: Duluth Minneapolis St. Paul Iowa:	5 - 40 - 28	33 84 64	1 15 8	0 0	000	1 5 5		0 0	000	1	23 99 58
Davenport Des Moines Sioux City Waterloo Missouri:	-1 2	4	2	0 3			- 0 - 0 - 0	0000		1 0	
Kansas City St. Joseph St. Louis North Dakota:	13 3 36	1 4	0	0		2	0	3 0 0	000	1	123 38 229
Fargo	2 1	Ö	0	1		0	- 0	0	0	0 0	0
Sioux Falls Nebraska: Lincoln Omaha	3	2	1 1	0		0	0	0 0	0	3	16 50
Topeka Wichita	1 1	6	0		1 6		) 0	0	0	2	22 31
SOUTH ATLANTIC Delaware: Wilmington Maryland:	. 3	4	0	. 0		0	0	0	0	6	36
Baltimore Cumberland Frederick District of Col.:	- 43 1 1	0	0	) (		0	0	0	1 0	4	339 16 6
Washington Virginia: Lynchburg Norfolk	_ 1 1	2	. 0	ا ا		1		0	0	0	188
Richmond Roanoke West Virginia: Charleston Huntington	- 4	3	0	1	(	1	0	0	0	8	57 22
Huntington Wheeling North Carolina: Raleigh	1	1 2	0				0 1	0	0	0	16 19
Wilmington. Winston-Salei	0	Ō	1		1 6	1 2	21 0	- 0	- 0	1	5

### City reports for week ended February 6, 1926—Continued

	Scarlet	fever	Smallpox		Tuber-	т	yphoid	fever	Whoop-		
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
SOUTH ATLANTIC continued											
South Carolina: Charleston Columbia Greenville	1 0 0	0	0 0 0	0 0 0	0 0 0	1 0 1	0 0	2 0 0	0 0 0	0 0 0	37 6
Georgia: Atlanta Brunswick Savannah	4 0 1	3 0 0	2 0 0	1 0 1	0 0 0	3 0 3	0 0 0	0 0 0	0 0 0	0	63 1 38
Florida: St. Petersburg_ Tampa	0	2	0	41	0	1 3	0	1	0	. 0	24 47
EAST SOUTH CENTRAL											
Kentucky. Covington Louisville Tennessee:	1 5	0 4	0	0	0	0	0	0 2	0	0	21 88
Memphis Nashville Alabama	4	13 1	3 0	1 1	0	4 3	0	0	0	3 3	75 60
Birmingham Mobile Montgomery	3 0 0	4 0 1	4 0 1	5 1 0	0	6 0 0	0 0	2 0 0	1 0 0	0	98 24 13
WEST SOUTH CENTRAL Arkansas:											
Fort Smith Little Rock Louisiana:	1	0	0	0		5	0	0 1		0 2	
New Orleans Shreveport Oklahoma:	ł	15 4	3	0	0	14 4	0	- 0	0	0	220 26
Oklahoma City Texas: Dallas	3	5	2	0	0	3	0	0	0	10	19 57
Galveston Houston San Antonio MOUNTAIN	.) 1	0 5 2	0	24 8 0	0 0	8 11	0 0	0 0	0 0	0 1 0	15 60 79
Montana: Billings Great Falls Helena Missoula	. 0	0 2 0 1	0 2 0 1	0 0 0	0 0	1 0 1 0	0 0 0	0 0	0 0	1 11 0 0	5 9 6 1
Idaho: Boise Colorado:	. 1	1	0	7	0	0	0	0	0	0	5
Denver Pueblo New Mexico.	12 2	3	3	0	0	10	0	0	0	69 2	92 13
Albuquerque Utah:	1	2	0	0	0	7	0	0	0	6	25 49
Salt Lake City Nevada: Reno	0	0	0	0	0	0	0	0	0	19	5
PACIFIC Washington: Seattle Spokane	11 3	32 34	4 6	3			- 0	1 0		7	
Oregon:	- 3	0	3	17	0	1	0	2	1	0	
Portland California: Los Angeles	- 6 20	13	11 4	87	8	28	2	1 2	0	. 2	285
Sacramento San Francisco	_ 2	5 12	0 4	6	0	4	0	0	0		26 195

### City reports for week ended February 6, 1926-Continued

	Cerebro meni	ospinal ngitis	Leth: encept	argie nalitis	Pell	agra	Poliom	yelitis (i paralysıs	nfantile )
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
NEW ENGLAND									
Massachusetts: Boston	3	2	0	1	0	0	1	O	0
MIDDLE ATLANTIC						1			
New York New York	6	2	5	3	0	1	1	1	0
New Jersey: Newark	0	0	1	0	0	0	0	0	0
Pennsylvania: Philadelphia	2	1	0	0	0	0	0	0.	0
EAST NORTH CENTRAL		ĺ		ĺ					
Ohio. Columbus	0	0	0	1	0	0	0	0	0
Illinois: Chicago	1	0	0	0	0	0	1	0	0
WEST NORTH CENTRAL									
Missouri: Kansas City	. 0	0	0	0	1	1	0	0	u ·
Kansas: Topeka Wichita	1	0	0	0	0	0	0	0	r
SOUTH ATLANTIC	1	0	0	0	0	0	0	0	(
Maryland:									
Baltimore 1	1	0	2	0	0	0	1	0	0
Washington	. 0	0	0	0	0	0	0	6	1
West Virginia: Huntington	. 0	1	0	0	0	0	0	0	0
South Carolina: Charleston	. 0	0	0	0	0	1	0	0	•
EAST SOUTH CENTRAL			_						
Tennessec Memphis Nashville	0	0	0	0	1 0	0	0	0	0
WEST SOUTH CENTRAL		ł							
Louisiana: New Orleans	. 0	0	0	0	2	1	0	0	0
Texas: Houston	1	0	0	0	0	1	0	0	0
MOUNTAIN									
Colorado: Denver		0	0	1	0	0	0	0	,
Utah: Salt Lake City	1	1	0	0	0	0	0	0	0
PACIFIC					1			1	
Washington: Tacoma	١.		_					_	
California:	1	0	0	0	0	0	0	0	Q
Los Angeles Sacramento San Francisco	1 1 2	0 1 0	0 0	0	0 0	0	0	0	0

¹ Typhus fever, 1 case, at Baltimore, Md.

The following table gives the rates per 100,000 population for 103 cities for the five-week period ended February 6, 1926, compared with those for a like period ended February 7, 1925. The population figures used in computing the rates are approximate estimates as of July 1, 1925 and 1926, respectively, authoritative figures for many of the cities not being available. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and more than 29,750,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, January 3 to February 6, 1926-Annual rates per 100,000 population-Compared with rates for the corresponding period DIPHTHERIA CASE RATES

	1	)IPHT	HERIA	CASE	KATE	28								
	Week ended—													
	Jan. 10, 1925	Jan. 9, 1926	Jan. 17, 1925	Jan. 16, 1926	Jan. 24, 1925	Jan. 23, 1926	Jan. 31, 1925	Jan. 30, 1926	Feb. 7, 1925	Feb. 6, 1926				
103 cities	145	170	167	145	159	142	² 160	3 142	4 169	⁵ 134				
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central West South Mountain Pacific	247 130 122 139 161 110 137 231 185	139 182 151 283 178 52 189 182 97	173 187 132 247 115 84 185 148 196	144 151 135 253 141 67 120 127 81	165 174 121 193 144 74 154 231 213	132 137 131 206 152 73 155 155 140	192 155 2 126 243 121 89 141 129 279	118 130 138 3 261 116 42 142 264 167	185 170 136 247 4 145 58 167 185 257	97 129 119 5 220 133 42 138 127 189				
		MEA	SLES (	DASE	RATES	·	•							
103 cities	207	1, 146	188	973	204	1, 335	2 204	³ 1, 385	4 242	⁵ 1, 482				
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	79	3, 094 995 1, 761 148 1, 289 52 0 55 65	424 157 327 12 42 42 22 259 152	2,867 845 1,302 127 1,356 239 17 91 51	479 186 352 26 36 68 13 240 52	2, 572 1, 088 2, 068 156 2, 477 285 13 118 65	467 205 2340 20 35 84 13 277 17	2,751 1,185 2,088 3 113 2,280 394 26 100 73	556 204 415 16 46 47 35 758 58	2, 408 1, 347 2, 152 5 406 2, 579 711 34 91 105				
	SC.	ARLE	r fevi	ER CA	SE RA	TES								
103 cities	307	270	344	285	356	292	2 346	3 286	4 397	5 298				
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central West South Central Mountain Pacific	148	295 210 330 580 158 119 112 237 243	542 292 350 731 246 168 110 518 174	381 237 321 548 186 140 • 90 319 270	575 325 344 780 190 168 185 296 210	300 237 324 669 186 202 69 373 256	515 299 2 366 756 175 200 194 250 215	378 235 300 3709 154 109 69 255 334	592 372 398 844 4 241 89 154 324 246	402 209 338 5 749 163 119 138 158 326				

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1925 and 1926, respectively.
² Racine, Wis., not included.
³ Kansas City, Mo., not included.
⁴ Wilmington, Del., not included.
⁴ Siour Falls, S. Dak., not included.

Summary of weekly reports from cities, January 3 to February 6, 1936—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925—Continued

#### SMALLPOX CASE RATES

		D1V17X173	PUA	CABE	16.7 1 13	5				
			***********		Week e	ended-				
	Jan. 10, 1925	Jan. 9, 1926	Jan. 17, 1925	Jan. 16, 1926	Jan. 24, 1925	Jan 23, 1926	Jan. 31, 1925	Jan. 30, 1926	Feb. 7, 1925	Feb. 6, 1926
103 cities	55	33	56	47	68	35	² 65	3 41	4 73	8 47
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	0 3 38 213 29 362 62 28 141	0 48 65 43 47 52 36 111	0 10 37 187 58 200 31 55 202	0 2 37 51 68 57 140 18 280	6 6 45 175 35 620 31 92 199	0 0 33 36 56 47 99 27 194	0 9 333 189 42 599 57 46 168	0 1 43 3 62 58 21 125 18 205	0 2 36 141 4 58 750 119 28 254	0 16 5 54 101 42 155 73 324
	TY	рпоір	FEVI	ER CA	SE RA	TES				
103 citics	32	13	20	11	17	13	2 17	38	4 13	
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	13 6 52 47 66	31 14 11 2 9 16 22 9	24 21 22 10 19 16 66 0	2 16 8 4 8 16 13 9	19 20 10 6 12 26 40 46 14	9 10 3 4 8 5 151 0 16	7 19 2 10 12 35 21 57 18 3	9 9 4 32 9 10 17 18 11	29 13 8 0 116 11 22 28 17	36 16
	I	NFLUE	ENZA :	DEATI	I RAT	ES				
96 cities	20	21	21	23	21	20	2 22	3 28	4 29	5 3 <u>5</u>
New England Middle Atlantic. East North Central West North Central South Atlantic. East South Central West South Central Most South Central Mountain Pacific	20 15	9 18 12 8 15 83 47 46 57	26 18 14 2 42 42 42 82 28	14 16 11 19 23 88 80 64 46	10 20 17 19 21 58 87 9	7 14 8 10 39 57 94 18 39	26 16 2 11 15 36 68 77 37 18	17 18 12 27 36 73 151 73 78	46 24 12 10 44 63 92 55 36	12 20 12 10 68 104 180 109
	P	NEUM	ONIA	DEAT:	H RAI	ES				
96 cities		220	206	211	202	199	1 198	* 194	1214	8 208
New England Middle Atlantir East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	268 268 247 222	246 229 176 140 289 332 335 127 220	151 259 143 104 271 173 426 240 145	208 236 153 125 276 285 354 328 167	208 233 132 117 242 294 343 314 185	210 227 139 81 287 228 312 273 185	232 229 136 114 238 278 218 305 193	144 217 136 3 106 284 208 444 164 174	204 252 152 106 295 299 334 185 175	201 213 145 125 344 249 387 228 185

² Racine, Wis., not included. ³ Kansas City, Mo., not included. ⁴ Wilmington, Del., not included. ⁵ Sioux Falls, S. Dak., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively

. Group of cities	Number of cities	Number of cities reporting	Aggregate of cities cases	population reporting	Aggregate of cities deaths	population reporting	
	cases	deaths	1925	1926	1925	1926	
Total	103	96	29, 944, 996	30, 473, 129	29, 251, 658	29, 764, 201	
New England. Middle Atlantic. East North Central. West North Central. South Atlantic. East South Central. West South Central. West South Central. Mountain. Pacific	12 10 16 14 21 7 8 9 6	12 10 16 11 21 7 6 9	2, 176, 124 10, 346, 970 7, 481, 656 2, 594, 962 2, 716, 070 993, 103 1, 184, 057 563, 912 1, 888, 142	2, 206, 124 10, 476, 970 7, 655, 436 2, 634, 662 2, 776, 070 1, 004, 953 1, 212, 057 572, 773 1, 934, 084	2, 176, 124 10, 346, 970 7, 481, 656 2, 461, 380 2, 716, 070 993, 103 1, 078, 198 563, 912 1, 434, 245	2, 206, 124 10, 476, 970 7, 655, 436 2, 499, 036 2, 776, 070 1, 004, 953 1, 103, 695 572, 773 1, 469, 144	

### FOREIGN AND INSULAR

#### THE FAR EAST

Report for week ended January 23, 1926.—The following report for the week ended January 23, 1926, was transmitted by the Far Eastern Bureau of the health section of the League of Nations' secretariat, located at Singapore, to the headquarters at Geneva:

T. 4	Pla	gue	Cho	dera	Sma	llpox
Port	Cases	Deaths	Cases	Deaths	Cases	Deaths
Calcutta		0		50	56	27
Bombay		ŏ		ő	13	
Mudias		Ö		10	10	8
Rangoon		4		0	7	
		å		ő	3	2
Karachi		ŏ		3	3	0,
Negapatam	0	ŏ	0	õ	Ō	0
					1 8	ō¹
Basra	0	0	0	0	8	6
Singapore	O.	Ŏ	0	0	0	0
Port Swettenham	0	0	0	0	0	0
Penang		0	0	0	0	0
Batayla	. 0	0	0	0	0	Q
Sœrabaya		0	0	0	3	1
Samarang	. 0	0	0	0	0	Õ
Belawan Deli	. 0	0	0	0	0	Õ
Padang (Sumatra)	. 0	0	0	0	0	. 6
Sabang (Rhio)	.] 0	0	0	0	0	0
Macassar		2	0	0	0	0
Pontianak (Borneo)	. 0	0	0	0	0	Õ
Sandakan (North Borneo)	. 0	0	0	0	0	Ó
Kuching (Sarawak)	. 0	0	0	0	1	0
Timor Dilly		0	0	0	0	0
Manila	. 0	0	4	2	0	0
Zamboanga	_ 0	0	0	. 0	0	
Bangkok	_ 2	1	30	23	8	6
Saigon and Cholon	_ 0	0	0	0	0	0
Heinhong	1 0	0	0	0	0	0
Tourane	- 0	0	0	0	0	0
Hongkong	-1 0	0	0	0	0	0
Shanghai	. 0	0	1 0	1 0		16
Amoy	_ 0	0	0	0	2 0	0
Nagasaki		0	1 0	0	Ō	Ò
Yokohama	_} 0	0	0	0	Ö	1 0
Simonoseki	- 1 0	0	0	0	0	0
Moji	_ 0	0	0	0	0.	Ó
Kobe	. 0	l õ	ĺ	ĺ	l ő	Ŏ
Osaka	_ 0	1 0	1	l o	l ö	Ó
Niigata	_	l ō	0	l ō	Õ	ě
Tsuruga	_ 0	l ō	Õ	ĺ	Ō	Ŏ
Hakodate	] 0	l õ	l ō	Ŏ	Ŏ	Ŏ
Keelung	]	ŏ	Ŏ	Ĭ	l ŏ	Ŏ
Fusan	]	ŏ	Ŏ	ľ	ŏ	ě
Dairen	I ŏ	ŏ	ŏ	ŏ	ĭ	ŏ
Adelaide		ŏ	ŏ	ŏ	Ô	ŏ
Brisbane.	il ŏ	l ŏ	Ĭŏ	ŏ	l ŏ	Ĭ
Fremantle	-l ő	Ö	1 0	l ŏ	1 8	ŏ
Melbourne	il š	ŏ	l ŏ	l ŏ	Ĭŏ	ŏ
Sydney		l ŏ	Ĭ	l ŏ	ŏ	ŏ
Rockhampton	. 0	0	0	1 0	0	ŏ
Townsville	i ŏ	0	0	1 6	ő	l ŏ
Port Darwin		Ö	0	0	8	ő
Broome	.] 8	0	l ő	0	0	ŏ
Port Moresby	] 0	l ő		0	0	ŏ
Auckland	- 0					) Ņ
er thirtiand	-1 0	, 0	, 0	1 0	0	1 0

Post	Plague		Cho	lera	Smallpox	
Port	Cases	Deaths	Casos	Deaths	Cases	Deaths
Wellington Christchurch Invereargil Honolulu Stez Alexandra Port Sard Mombasa (Kenya) Massowah Dibuti Mozambique Louncuco Marques Durban East London Port Elizabeth Cape Town Port Jouis (Mauritus) Seychelles		000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

#### BRAZIL

Plague—Bahia.—During the week ended January 2, 1926, one case of plague with one death was reported at Bahia, Brazil.

#### CANADA

Communicable diseases—January 31-February 6, 1926.—The following table shows the number of cases of certain communicable diseases in seven Provinces of Canada during the week ended February 6, 1926. The information was supplied by the Canadian Ministry of Health.

Disease	Nova Scotia	New Bruns- wick	Quebec	Ontario	Mani- toba	Sas- katche- wan	Alberta	Total
Influenza				1				.1
Cerebrospinal fever Poliomyelitis	17		i					17
Smallpox Typhoid fever			9	9 1	2 2	16	6	33 18

#### CHINA

Disease prevalence—Chinese Eastern Railway—1922-1924.—Prevalence of disease among the railway population on the line of the Chinese Eastern Railway during the years 1922 to 1924, inclusive, has been reported as follows:

	Cases			
Disease	1922	1923	1924	
Influenza Malaria Scarlet fever	12, 379 2, 193 198	8, 991 1, 201 370	8, 846 793 301 1, 016 257	
Scarlet lever Tuberculosis. Typhoid fever	520 1, 160	1, 135 438	1, 016 257	

#### COLOMBIA

Rodent plague reported in Buenaventura, Colombia.—Information received under date of February 12 states that a plague-infected rat has been reported in Buenaventura, Colombia.

#### CUBA

Communicable diseases—Habana—January 1-31, 1926.—During January, 1926, communicable diseases were reported at Habana, Cuba, as follows:

Discase	New cases	Deaths	Remain- ing under treat- ment Jan. 31, 1926	Discase	New cases	Deaths	Remain ing under treat- ment Jan. 31, 1926
Chicken pox Diphtheria Leprosy Malaria ¹	30 13 65		20 2 8 25	Measles Scarlet fever Typhoid fever 1	67 14 20	3 1 5	18 6 14

¹ Many of these cases from the interior.

Leprosy—Tuberculosis—Isle of Pines.—Under date of February 2, 1926, 2 cases of leprosy and 55 cases of tuberculosis were reported present in the Isle of Pines, Cuba. Population, 4,228.

#### . JAMAICA

Smallpox (reported as alastrim)—December 27, 1925-January 30, 1926.—During the five-week period ended January 30, 1926, 90 cases of smallpox (reported as alastrim) were notified in the island of Jamaica at localities outside of the parish and city of Kingston, and 48 cases in Kingston.

Other diseases.—Occurrence of other diseases was noted during the same period as follows: Cerebrospinal meningitis, 1 case; chicken pox, 8 cases; leprosy, 1 case; ophthalmia neonatorum, 2 cases; tuberculosis (pulmonary), 44 cases (Kingston, 12 cases); typhoid fever, 61 cases (Kingston, 8 cases).

Total mortality, November-December, 1925.—The total number of deaths from all causes reported in the island was, for the month of November, 1925, 130, and for December, 1925, 111. Population, estimated, 858,118; population of Kingston, 62,707.

#### MADAGASCAR

Plague—November, 1925.—During the month of November, 1925, 232 cases of plague, with 220 deaths, were reported in the island of Madagascar. For distribution of occurrence according to locality and type of disease, see page 410.

#### MAURITIUS

Plague—November, 1925.—During the month of November, 1925, two cases of plague, with one death, were reported on the island of Mauritius. The cases occurred at Pamplemousses and Port Louis.

#### MEXICO

Fatal case of typhus fever—Vera Cruz—February 12, 1926.—A fatal case of typhus fever was reported at Vera Cruz, Mexico, February 12, 1926. The case occurred in a native of the State of Campeche who arrived sick from Mexico City.

#### SALVADOR

Mortality—October and November, 1925.—Mortality from all causes in the Republic of Salvador for the months of October and November, 1925, has been reported as follows: October, 2,527 deaths; November, 2,679 deaths. Population, estimated, 1,500,000.

Prevalent diseases.—The most prevalent diseases reported in the Republic during the two months under report were malarial and other tropical fevers. In the city of San Salvador (population 83,000) a total of 27 deaths from tuberculosis was reported during the same period.

### CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

## Reports Received During Week Ended February 26, 1926 ¹ CHOLERA

Place	Date	Cases	Deaths	Remarks
India	Dec. 27-Jan. 2 Jan. 3-16  Jan. 4-10  Dec. 20-26  Dec. 20-26  Dec. 27-Jan. 2	10 26 1 2 61 23	9 22 7 1 32 14	Nov. 29-Dec. 12, 1925: Cases, 4,752; deaths, 2,750.

#### PLAGUE

Brazil: Bahia Colombia: Buenaventura	Dec. 27-Jan. 2	1	1	Feb. 12, 1926: Plague-infected
India	Jan. 3-9 Dec. 20-26 Dec. 26-Jan. 1 Dec. 6-19	. 2 4 46 15	2 3 43 15	nat. Nov. 29-Doe. 12, 1925: Cases, 2, 543; deaths, 1,869.

From medical officers of the Public Health Service, American consuls, and other sources.

## Reports Received During Week Ended February 26, 1926—Continued PLAGUE—Continued

Madagasear	2; sep 3; sep 1; sep hs, 45 ice mic deaths
Locality	2; sep 3; sep 1; sep hs, 45 ice mic deaths
Fort Dauphin	1; sep 1; sep hs, 45 ice mic
Moramanga Province	1; sep 1; sep hs, 45 ice mic
Tamatave (pott)	1; sep hs, 45 ice mic deaths
Other localities	hs, 45 ice mic deaths
Mauritus	deaths
Pamplemousses	
SMALLPOX	×, 33.
Arabia:	·s, 33.
Aden Jan. 10-16 2 1 Canada Jan. 31-Feb. 6 6 6 Manitoba Godo 2 2 Ontario Go 9 Saskatchewan Go 16 Ceylon: Cloimbo China: Maneburia— Dairon Do Dec. 21-27 6 7 Do Do Dec. 28-Jan. 3 11 2 South Manchuria— Anshan Jan. 10-16 1 South Manchurian Railw Do Do Swatow Go 2 Do Prevalent.  Egypt: Alexandria Jan. 8-14 2 1 Great Britain: Leeds Jan. 17-23 2 Newcastle-on-Tyne Godo 6 Shefield Jan. 10-23 8 India  Bombay Dec. 27-Jan. 9 26 13 Calcutta Dec. 27-Jan. 2 30 13 Kyraebi Jan. 20 32 2  I Jan. 31-Fe . 6, 1926: Casc. Alexandria Godo 6 1	×, 33.
Canada         Jan. 31-Feb. 6.         6           Albetta	s, 33.
Manitoba	
Ontario         .do         9           Saskatchewan         .do         16           Ceylon:         .do         16           Colombo         .do         2           China:         .macburia         .do         2           Darra         .do         .do         1           South Manchuria         .do         1         .do           Awshan         .do         2         .do           Kar-yuan         .do         2         .do           Kar-yuan         .do         2         .do           Egypt:         .do         2         .do           Alexandria         .do         2         .do           Great Britain:         .do         6         .do           Newcastle-on-Tyne         .do         6         .do           Shefifield         .da         3         .do           Do         .do         4         4           Do         .do         6         .do           .do         6         .do         .do           .do         6         .do         .do           .do         6         .do           .do <td></td>	
Ceylon:         Colombo         Jan. 3-9         2         Port cases.           China:         Mancburia—         Dec. 21-27         6         2           Darren         Dec. 28-Jan. 3         11         2           South Manchuria—         Anshan         Jan. 10-16         1         South Manchurian Railw           Anshan         Jan. 10-16         1         Do.         Do.         Do.         Do.         Do.         Do.         Do.         Do.         Do.         Do.         Do.         Do.         Do.         Do.         Do.         Do.         Do.         Prevalent.           Egypt:         Alexandria         Jan. 8-14         2         1         Treat Britain:         Treat Britain:         Leds         Jan. 17-23         2         Nov. 29-Dac. 12, 1925:         4,782; deaths, 1,013         A,782; deaths, 1,013         A,782; deaths, 1,013         A,782; deaths, 1,013         A,782; deaths, 1,013         A,782; deaths, 1,013         A,782; deaths, 1,013         A,782; deaths, 1,013         A,782; deaths, 1,013         A,782; deaths, 1,013         A,782; deaths, 1,013         A,782; deaths, 1,013         A,782; deaths, 1,013         A,782; deaths, 1,013         A,782; deaths, 1,013         A,782; deaths, 1,013         A,782; deaths, 1,013         A,782; deaths, 1,013         A,782; deaths, 1	
Colombo	
Dairon   Dec. 21-27   6   Do   Dec. 28-Jan. 8   11   2   Dec. 28-Jan. 8   11   2   Dec. 28-Jan. 8   11   2   Dec. 28-Jan. 8   11   2   Dec. 28-Jan. 8   11   2   Dec. 28-Jan. 8   Dec. 28-Jan. 8   Dec. 28-Jan. 8   Dec. 28-Jan. 8   Dec. 28-Jan. 8   Dec. 28-Jan. 8   Dec. 28-Jan. 8   Dec. 28-Jan. 9   26   13   Dec. 27-Jan. 9   26   13   Dec. 27-Jan. 2   30   13   Everabli   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 2   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 28-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 38-Jan. 3   Dec. 3	
Dec. 28-Jan. 3.	
South Manchuria	
Changehun. — do 1 Do. Bar-yuam do 2 Do. Swatow do 2 Do. Prevalent.  Egypt: Alexandria. Jan. 8-14 2 1 Great Britain: Leeds. Jan. 17-23 2 Newcastle-on-Tyne do 6 Sheffield. Jan. 10-23 8 India Nov. 29-Dec. 12, 1925: 4,782; deaths, 1,013  Bombay. Dec 20-26. 4 4 4 A Do. 27-Jan. 9 26 13 Calcutta. Dec. 27-Jan. 2 30 13 Exprabi Jan. 3-0 3 2	av.
Swatow	
Egypt:         Alexandria.         Jan. 8-14         2         1           Alexandria.         Jan. 17-23         2         2           Newcastle-on-Tyne         Jan. 10-23         8         8           India         Jan. 10-23         8         Nov. 20-Dec. 12, 1925:           Bombay         Dec. 20-26         4         4,782; deaths, 1,013           Calcutta         Dec. 27-Jan. 9         26         13           Expreshi         Jan. 3-0         3         13	
Alexandria Jan. 8-14 2 1 Great Britain: Leeds Jan. 17-23 2 Newcastle-on-Tyne Jan. 10-23 8 India Dec. 20-26. 4 Do. Dec. 27-Jan. 9. 26 Calcutta Dec. 27-Jan. 2 30 13 Kyrachi Jan 3-0 3 2	
Newcastle-on-Tynedodododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo	
She field Jan. 10-23 8 Nov. 20-Dec. 12, 1925:  Bombay Dec 20-26 4 4,782; deaths, 1,013  Calcutta Dec. 27-Jan. 9 26 13  Calcutta Dec. 27-Jan. 2 30 13  Expressi Jan. 3-0 3 2	
India	
	Cases
Calcutta Dec. 27-Jan. 2 30 13 13 Ian. 3-0	
Karachi Jan 3-0 3 2	
Madras   Jan. 3-16   15   4	
Rangoon Dec. 20-26 1	
Indo-China (French):	
Saigon Dec. 21-27 2 1 Iran:	
Bagdad Dec. 27-Jan. 2 5 2 Jamaica Dec. 27, 1925-Jan. 30, 1926	Caeca
90 (reported as alsastrim calities outside Kingsto	). Lo
Kingston	4
Suerabaya. Dec. 6-19 114 20 Mexico:	
San Luis Potosi Jan. 31-Feb. 6 11 Prevalence stated to be of ing.	ecreas
Lisbon	
Bangkok Dec. 20-25 3 1 Dec. 26-Jan. 2 3 3	
Spain: Valencia Jan. 17-30 5 Union of South Africa:	
Orange Free State— Ladybrand district Dec. 27-Jan. 2 Outbreaks.	
Belfast district Do	

## Reports Received During Week Ended February 26, 1926—Continued TYPHUS FEVER

Place	Date	Cases	Deaths	Remarks
Bulgaria: Sofia China: Anting Egypt: Alexandria Cano Greece: Saloniki Mexico: Mexico City	Jan. 8-14	2 1 1 2 1	2	Including municipalities in Fed-
Vera Cruz_ Union of South Africa: Transvaal— Bloemhof district	Feb. 12		1	eral District. Outbreaks. On farm,

## Reports Received from December 28, 1925, to February 19, 1926 ¹ CHOLERA

Place	Date	Cases	Deaths	Remarks
India Calcutta Do Madras	Nov. 1-28 Dec 6-26 Nov 15-Jan. 2 Nov. 8-Dec. 5	101 51 174 4	89 54 70 4	Oct. 18-Nov. 28, 1925: Cases, 10, 991; deaths, 6,498.
Province— Annam Cochin China Tonkin Japan. Philippine Islands: Manila. Do. Provinces—	do do Aug. 30-Oct. 17 Nov. 9-Dec. 5 Dec. 14-Jan. 3	2 5 2 409 8 7	2 3 6 4	5. September, 1924: Cases, 7; deaths, 4. (European cases, 2.) September, 1924: None. September, 1924: 1 case; 1 death. September, 1924: None.
Bataan Bulacan Do Laguna Nueva Ecija Pampanga Do Rizal Romblon Russia Do Sian	Nov. 23-Dec. 13dodo do Nov. 1-7. Nov. 23-Dec. 19 Sept. 27-Nov. 21 Dec. 7-13 May-June July-August	10 92 179 16 6 1 102 75 23 7 4	8 64 69 13 2 1 75 21 12	
Bangkok Do	Oct. 4-Nov. 14 Nov. 22-Dec. 19 Oct. 3	108 209 9	68	Arrived at Bangkok, Siam; 9 cases in coolie passengers:

#### PLAGUE

Argentina				Jan. 24-30, 1926: Six cases, occur-
				ring in interior provinces of Salta and Santa Fe.
Brazil: Bahia	Nov. 8-14	2		
Santos British East Africa:	Dec. 8-21		2	
Kenya— Kisumu	Nov. 22-Dec. 5	,	2	
	SeptOct	256	233	

¹ From medical officers of the Public Health Service, American consuls, and other sources.

### Reports Received from December 26, 1925, to February 19, 1926-Continued

PLAGUE—Continued	-Continued
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	PLAGUE	· Contin	ueu	
Place	Date	Cases	Deaths	Remarks
O 7.1 3				
Canary Islands: La Laguna	Dec 24	3	2	
Las Palmas	doi	ĭ		
Santa Cruz de Teneriffe	Jan. 7 Dec. 18-27	1	1	
Santa Cruz de Tenerifie Ceylon:	Dec. 18-27	3		
Colombo	Nov. 15-28	3	3	
Do	Nov. 15-28 Nov. 29-Dec. 5 Dec. 27-Jan. 2			1 plague rodent.
	Dec. 27-Jan. 2	1	1	
China: Nanking	Nov. 15-Jan. 2			Prevalent.
Ecuador:				
Eloy Alfaro	Jan. 1-15 Nov. 1-Dec. 31	1		•
Guayaquil	Jan. 1-15	31 15	12 5	Rats taken, Nov. 1-Dec. 31, 1925
Dol	do	ĩ		49,370; rats found infected, 281. Rats taken, Jan. 1-15, 1926 11,864; rats found infected, 80
				11,864; rats found infected, 80
Egypt	Nov 18			Jan. 1-Dec. 9, 1925: Cases, 138 Corresponding period, 1924
Beni Suef Fayoum Province	Nov. 18 Dec. 3-9	1	1	Cases, 365.
Greece:				ŕ
Athens	Nov. 1-30	18	4	Including Pira us.
PatrasIndia	Nov. 13-Dec. 12	4	1	Oct. 18-Nov. 28, 1925: Cases
Bombay	Dec. 6-12	1	1	7,420; deaths, 5,031.
Calcutta Karachi	Nov. 1-Dec. 19 Oct. 25-Nov. 7	1	1	
Karachi	Nov. 1-Dec. 19	75	3 41	
Do	Nov. 15-21	35	22	
Rangoon	Oct. 25-Dec. 12	19	12	
Indo-China				September, 1925: Cases, 17 deaths, 16, September 1924
Province—	G 7.00	١	١	Cases, fatal, 12
Cambodia	1 -	11	11	September, 1924: Cases, 9 deaths, 9.
Cochin China	_	14	12	September, 1924: 1 case, 1 death
Bagdad	Dec. 13-Jan. 2	7	3	
Batavia	Oct. 24-Nov. 6	94	89	Province.
Do Cheribon	Nov. 14-Dec. 25 Sept. 27-Oct. 17	265	254	
Do	Nov. 15-28		166 59	
Djokjakarta				Epidemic in one 1 ality.
Kediri	. Dec. 7			Do.
Pekalongan	Nov 8-98		42 80	
Do	Oct. 20			Do.
Soerabaya	Oct. 11-Dec. 5	97	37	
Do	Sept. 27-Oct. 17 Nov. 8-28	6	6 14	
Madagascar:	1101.0 20		1 **	į
Province-	G		-	
Itasy Moramanga	Sept. 16-Oct. 31		20 17	
Tananarive.	do	174	159	
Town		1	1	
Fort Dauphin	Sept. 16-Oct. 15	5	2	
Tamatave (port)	Sept. 16-30 Oct. 16-31	3 4	2 4	
Tananarive	Sept. 16-30 Sept. 20-Nov. 14	2	2	
Mauritius Island	Sopt. 20-Nov. 14	9	9	
Pamplemousses.	-ldo	2 3	2	*
Rivière du Rempart	do	2		
Netherlands India:		I -		
Celebes Island— Makassar	Dec. 12	l		Enidamia
Nigeria	August-September	349	267	Epidemic.
Peru:		l		
Huacho Lima	Jan. 26	15		Port 60 miles north of Callao.
	1	20		In hospital. Some cases in province.
Mollendo	.ldo	1		12 or 15 cases reported unofficially

### Reports Received from December 26, 1925, to February 19, 1926—Continued

PLA	CIL	E	Con	tin	han

Place	Date	Cases	Deaths	Remarks
Russia	May-Jute	67		
_ Do	July-August	139		
Senegal	September - Octo- ber.	45	25	
Siam	Aug. 23-Oct. 13	50	40	
BangkokStraits Settlements:	Nov. 15-28	3	3	
Singapore	Nov. 1-Dec. 5	8	8	
Svria:	110111 2001 011111	Ŭ		
Beirut	Nov. 11-20	1		
Union of South Africa:				
Cape Province— Kimberley district	Dec. 13-19	,		
Middleburg district	Dec. 13-13-13-13-13-13-13-13-13-13-13-13-13-1	1		European.
Steynsburg district	Nov. 15-21	ī		Native. On farm.
Orange Fice State—	11011.10 #11111111	•		Timeric. On latin.
Boshof district	Nov. 29-Dec. 5	1	1	In native.
Bothaville district	Dec. 6-12	1	Ī	Native. On farm.

#### SMALLPOX

	~			
Algeria				
Algiers	Nov. 21-Dec 31	177		
Do	Jan. 1-10	64		
Arabia:	Van. 1 1011111111	0.2		
Aden	No. 29-Dec. 5	1		Imported.
Argentina:	140. 25-1560. 011111	-		imported.
Rosario	October		1	
Australia	October		1	
Queensland—				
	Dec 0 15			
Brisbane	Dec. 9-15	1		
Brazil:	37 7 00			
Rio de Janeiro	Nov. 1-28	134	72	
Do	Dec. 6-26	65	26	
British East Africa:		ł		
Kenya—				
Mombasa	Nov. 15-Dec. 19	14	6	
Uganda Protectorate	Sept. 1-Oct. 31	8	4	
British South Africa:	•			
Southern Rhodesia	Nov. 13-Dec. 23	3		
Canada	2,020 2000 2001			Sept. 13-Jan. 2: In 7 Provinces.
Alberta	Jan. 10-23	17		186 cases; Jan. 3-23, 1926, cases,
21DC1 60	Jan. 10-20	1,		115.
Calgary	Dec. 13-19	1		From Drumbeller, vicinity of
Cangary	1760. 19-19	1 1		
m takes distributes		1		Calgary.
British Columbia—	7 4-0	l -		
Vancouver	Jan. 4-10	1		
Manitoba	Jan. 3-30	18		
Winnipeg	Dec. 13-19	2		
Do.,	Jan. 3-Feb. 6	9		
New Brunswick—		1	}	
Northumberland	Dec. 6-13	1		
Ontario				December, 1925: Cases, 32:
		l	I	deaths, 1. January, 1926;
		1	1	Cases, 80.
Admaston	Jan. 1-31	11		
Ottawa	Dec. 6-12	2		
Do	Jan. 3-Feb. 6	2		
Toronto	Dec. 27-Jan. 2	1		
Do	Jan. 3-23	21		
Trenton	Jan. 1-31	7		
Saskatchewan	Jan. 3-23	15		=
	Jan. 5-25			
Moose Jaw	Jan. 24-30	2		
Regina	Jan. 24-30	1		
Ceylon.	l	1 .		
Colombo	Dec. 6-12	1		Port case.
China:		l		
Amoy	Oct. 25-Dec. 19		.[ 1	
Antung	Dec. 7-20	2		1
Chungking	Nov. 15-Jan. 9			Present.
Foochow	Nov. 1-Jan. 9			Do.
Hankow	Nov. 14-Dec. 26	4		1
Do	Jan. 10-15	l i		1
Hongkong	Nov. 22-Dec. 26	4		l
				••

# Reports Received from December 26, 1925, to February 19, 1926—Continued SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
China—Continued.	Winness management of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the seco			
Manchuria—			l i	,
An-shan	Dec. 6-12	1		
Dairen	Oct. 19-Dec. 20	67	15	
Mukden	Oct. 24-Nov. 15	2		
Tieh-ling Nanking	Nov 21-Dec 26	-		Present.
Do	Nov. 21-Dec. 26 Dec. 27-Jan. 2			Do.
Do Shanghai	Oct. 25-Jan. 2	37	36	
Do	Jan. 3-9	9	16	Cases, foreign.
Swatow	Nov. 22-Jan. 9			Do.
Tientsin	Nov. 1-Dec. 19	2		
Egypt:	Dec. 3-31	5	2	
Alexandria	Dec. 3-31	"	-	September, October, 1925: Cases,
France				91.
Gold Coast	September, 1925	14	4	
Great Britain.	,			
England and Wales	Nov. 15-Dec. 26	790		
Do	Dec. 27-Jan. 23	1, 161		
Hull	do	29		
Newcastle-on-Tyne	Nov. 29-Dec. 19 Dec. 27-Jan. 16 Nov. 22-Dec. 26	6		
Do	Nov. 22-Jan. 10	9		
Nottingham Do	Dec. 27-Jan. 9	2		
Sheffield	Nov. 22-Dec. 12	1 7		
Do	Dec. 20-26	3		
Do	Dec. 27-Jan. 9	2		
Greece			i	Oct. 1-31, 1925: Cases, 16.
Athens	Nov. 1-30	17	1	0.4 10 37 00 1007 0
India				Oct. 18-Nov. 28, 1925: Cases,
Damharr	Nov 9-Dog 10	22	16	8,827; deaths, 1,915.
Bombay	Nov. 8-Dec. 19 Nov. 29-Dec. 26	48	25	
Calcutta Karachi	Nov. 1-21	23		
Do.	Nov 29-Dec. 5	4	2	
Do	Dec. 13-19	3		
Do	Dec. 29-Jan. 2	7	2	
Madras	Nov. 15-Dec. 26	17	5	
Do	Dec. 13-19 Dec. 29-Jan. 2 Nov. 15-Dec. 26 Dec. 27-Jan. 2	3	1	
Rangoon	Oct. 25-Nov. 28 Dec. 6-19	3	i	
Indo-China	Dec. 0-18	, ,	1 .	Sentember-October 1925: Cases
Zikto-C mina			1	204: deaths, 62. September.
		1	I	September-October, 1925: Cases, 204; deaths, 62. September, 1924: Cases, 78; deaths, 22.
Province—			1	
Annam	Sept. 1-Oct. 31	90	23	September, 1924: Cases, 8;
e 1 11			00	deaths, 2.
Cambodia	ao	. 72	30	September, 1924: Cases, 16;
Cochin China	do	61	30	deaths, 1. September, 1924; Cases, 43;
Cocini cuma	·	1 "	30	deaths, 19.
Tonkin	do	22	1	September, 1924; Cases, 11.
Iraq				Sept. 6-Oct. 17, 1926; Cuses, 81;
Bagdad	Nov. 1-14	4	4	deaths, 40.
Do	Nov. 22-Dec. 26 Dec. 27-Jan. 2	15	11	•
Do	Dec. 27-Jan. 2	1		1
Italy	Oct. 12-25	1		Aug. 2-Oct. 31, 1925: Cases, 38.
Rome Jamaica	Oct. 12-20	1		Nov. 27-Dec. 26, 1925; Cases, 52,
Kingston	Nov. 27-Dec. 26	43		Reported as alastrim
Japan:		1		ATT DOTA THE CHARLES THE
Talwan	Nov. 11-Dec. 10	3		
Yokohama	Dec. 14-20	1		
Java:			1 1	
Batavia	Oct. 24-30	1		
Do	Nov. 14-Dec. 25	7		
Cheribon Kraksaan	Nov. 8-14 Oct. 11-17	11		
Malang	dodo	11 2		
North Bantam	Oct. 4-17	4		
Pekaiongan	Oct. 4-17. Oct. 25-31.	i		
Probolingo	Oct. 11-17	1		0
Soeranaya	Oct. 11-Dec. 5	467	68	ı
South Bantam	Oct. 11-17.	1		• *
Tegal Malta	Oct. 4-10	9	1	
#7# \$44 \$44 \$44	November	14	,	ı

# Reports Received from December 26, 1925, to February 19, 1926—Continued SMALLPOX—Continued

Place	Date	Cases Deaths		Remarks		
I IACC	2010		- Deathis	AUDITARS		
Mexico				July-September, 1925: Deaths,		
Aguascalientes	Dec. 13-Jan. 2	4	3 7	1,157.		
Duango	Jan. 3-30 Dec. 1-31		1			
Du, ango	Jan 1-31		2			
Guadalajara	Feb. 1		ī			
Mexico City.	Nov. 22-Jan. 2	157	-	Including municipalities in Fed-		
Do	Jan. 2-23	29		eral District.		
San Luis Potosi	Jan 24-30		2			
Tampieo	Dec 21-Jan. 2	1	1			
Do	Jan. 2-31	2				
Torreon	Nov. 1-Dec 31		51			
Nigeria	August-September	103	1			
Persia.						
Tcheran	July 23-Sept. 22		203			
Peru:			_			
Arequipa	Oct. 1-31		1	37. 4 # 400# 67		
Poland.				Nov. 1-7. 1925: Cases, 8.		
Portugal.	0.4.03	7.34				
Lisbon	Oct. 4-31	124	60			
Do	Nov. 16-Dec. 27	107	60			
Do	Nov. 14-Dec. 20	187				
Do Oporto	Nov. 16-Dec. 27 Nov. 14-Dec. 26 Dec. 27-Jan. 16 Nov. 22-Dec. 19	40	3			
	Dec. 27-Jan. 2	2				
Do Russia	Dec. 27-3an. 2	1		May-June, 1925: Cases, 2,333.		
ATUSSII				Later than previously pub-		
				lished reports.		
Do	July-August	760		named reports.		
Siam.	July-August	100		July 12-Sept. 5, 1925: Cases, 21;		
K-111111111111111111111111111111111111				deaths, 6.		
Sierra Leone	1			4000000		
Konno district	Dec 16-31	5				
Spain:	200 20 011111111					
Madrid	Year 1925		18			
Malaga	Nov. 29-Dec 5		2			
Do	Dec. 27-Jan. 2		ī			
Valencia	Dec. 20-26	1				
Do	Dec. 20–26 Dec. 27–Jan. 2	Ī				
Do	Jan. 10-16	3				
Switzerland				June 28-Nov. 21, 1925: Cases, 62.		
Lucerne	Oet. 1-Nov. 30	8		,		
Zurich	Dec. 27-Jan. 2	1				
Trinidad (West Indies):	1					
Port of Spain.	Jan. 22	1		Imported.		
Tunisia:		l		_		
Tunis	Nov. 21-30	2				
Do	Dec. 11-31	10	1			
Do	Jan. 1-20	5				
Union of South Africa:		1				
Transvaal—		ł				
Pretoria district	Dec. 6-12			Outbreaks. In native com-		
			[	pound.		
	TYPHUS	S FEVE	R ·			
11t-	1	I	1			
Algeria:	Ostabas Das CO	4	1			
Algiers	October-Dec. 20	4				
Argentina:	Oct. 13-Dec. 31	2	1	1		
Rosario Bulgaria	: VCv. 10~LJCC. 01	26	2	1		
Dineally Russing	Cantambar Oc			1		
	September-Oc-	20	-	}		
	September-Oc- tober.		1			
Sofia	September-Oc-	1				
SofiaChile	September-Oc- tober. Dec. 25-31					
Sofia Chile Valparaiso	September-Oc- tober.		2			
Sofia	September-Oc- tober. Dec. 25-31 Nov. 29-Jan. 2	1	2			
Sofia. Chile Valparaiso. China: Antung.	September-October. Dec. 25-31 Nov. 29-Jan. 2 Nov. 29-Dec. 27	1 5				
Sofia Chile Chile China: China: Antung. Hongkong.	September-Oc- tober. Dec. 25-31 Nov. 29-Jan. 2	1	2			
Sofia Chile Valparaiso China: Antung Hongkong Manchuria	September-October. Dec. 25-31 Nov. 29-Jan. 2 Nov. 29-Dec. 27 Dec. 27-Jan. 2	1 5 1	2			
Sofia Chile Valparaiso China: Autung Hongkong Manchuna— Harbin	September-October.  Dec. 25-31	5 1	2	-		
Sofia. Chile Valparaiso. China: Antung. Hongkong. Manchuria— Harbin. Czechoslovakia.	September-October. Dec. 25-31 Nov. 29-Jan. 2 Nov. 29-Dec. 27 Dec. 27-Jan. 2	1 5 1	2	-		
Sofia Chile Valparaiso China: Autung Hongkong Manchuna— Harbin	September-October.  Dec. 25-31	5 1	2	-		

### Reports Received from December 26, 1925, to February 19, 1926—Continued

#### TYPHUS FEVER-Continued

Place	Date	Cases	Deaths	Remarks		
	July-October	4				
France	Oct. 25-31	1				
Germany	OCU, 20-01					
Greece:	Nov. 1-30	11	2			
Ireland	1407.1.00		- 1			
Cork County—			1			
Cork County—	Dec. 26-Jan 1	2				
Do	Jan. 2-8	5				
Dumanway	Nov 14	ĭ				
Galway County	Oct. 17	Ĩ				
Latvia	October, 1925					
Lithuania				September-October, 1925: Cases,		
1910HUALIG				9; deaths, 1.		
Mexico				July-September, 1925: Deaths,		
Aguascalientes	Dec. 14-19	1		90.		
Durango.	Dec. 1-31		1			
Do	Jan. 1-31		1			
Guadalajara	Dec. 8-Jan. 4		3			
Mexico City	Nov. 22-Dec. 26	157		Including municipalities in Fed-		
Do	Dec. 27-Jan. 23			eral District.		
Tampico	Dec. 21-Jan. 10	1	1			
Torreon	November, 1925		1 1			
Morocco	August, 1925	3				
Palestine:			1 1			
Gaza	Dec. 18	1				
Jaffa	Dec. 1-7	1				
Nazareth	Nov. 3-9	1				
Safad	Nov. 24-30	1				
Tel-Aviv	do	1				
Peru:		l				
Arequipa Poland	October, 1925		. 2			
Poland	Oct. 11-Nov. 14	142	16	Y-1- 1007: Clare 84: 3:-43:- 0		
Rumania				July, 1925: Cases, 74; deaths, 9. May-June, 1925: Cases, 10,680.		
Russia				Later than previously pub-		
		1		lished reports.		
Do		ł	)	July-August, 1925: Cases, 3,136.		
Union of South Africa			-	Oct. 1-31, 1925: Cases, 88; deaths,		
Onion of Boden Anica				7 (colored); cases, 7 (European		
	1	1	1	population).		
Cape Province	Oct. 1-31	63	5	Colored.		
Do	Nov. 8-Dec. 26		1	Outbreaks.		
Middleburg district		i	-	European. On farm.		
Natal.	Oct. 1-Dec. 5	1				
Orange Free State.	Nov. 29-Dec. 5	23	i	1		
Do	Nov. 1-Dec. 26	·	1	Outbreaks.		
Bethulia district	Dec. 6-12			Do.		
Bothaville district	do	1		Native. On farm.		
Transvaal	Oct. 1-31	l ī	î			
Do	Dec. 13-26			Outbreaks.		
		1	-	_		
	YELLO	w fevi	ER	THE RESERVE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF		
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	1	1 _	1 .	1		
Gold Coast	September	. 1		•		
Gold Coast		$\frac{1}{2}$				
	September					

# PUBLIC HEALTH REPORTS

ISSUED WEEKLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

Volume 41 :: :: Number 10

MARCH 5 - - 1926

### SPECIAL ARTICLES

Current World Prevalence of Disease
Division of Venereal Diseases, July 1-December 31, 1925



WASHINGTON GOVERNMENT PRINTING OFFICE 1926

#### UNITED STATES PUBLIC HEALTH SERVICE

#### Hugh S. Cumming, Surgeon General

#### DIVISION OF SANITARY REPORTS AND STATISTICS

Asst Surg. Gen B. J. LLOYD, Chief of Division

The Public Health Reports are issued weekly by the United States Public Health Service through its Division of Sanitary Reports and Statistics, pursuant to acts of Congress approved February 15, 1893, and August 14, 1912.

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### PUBLIC HEALTH REPORTS

VOL. 41

MARCH 5, 1926

NO. 10

#### CURRENT WORLD PREVALENCE OF DISEASE

REVIEW OF THE MONTHLY EPIDEMIOLOGICAL REPORT ISSUED DECEMBER 15, 1925, BY THE HEALTH SECTION OF THE LEAGUE OF NATIONS' SECRETARIAT 1

The recent cholera outbreaks in the far eastern ports for the most part had come to an end at the beginning of December, and only Bangkok and Calcutta were reporting a considerable number of cases. The Epidemiological Report for December 15, published by the Health Section of the League of Nations' Secretariat, gives the following résumé of these outbreaks:

The first important outbreak occurred in Shanghai in August; no fresh case has been reported there since the middle of November. The infection of various Japanese ports, which followed in September, has been referred to in earlier numbers of this Report. Osaka alone remained infected during the latter half of November, but no fresh case was reported during the week ending December 5. The outbreak which occurred in Manila during the second half of September was promptly controlled, and only sporadic cases remain. During the week ending October 10 there were 9 cases of cholera in the Provinces of Krung Deb in Siam, 8 of which were stated to be imported cases; a serious outbreak in Bangkok followed, which reached its maximum in the second half of November. time the number of cholera deaths in Calcutta rose to 42 during the week ending November 28. April is usually the month of maximum cholera incidence in Calcutta, where an outbreak similar to the present has not occurred since 1920. It is noteworthy that the disease remains relatively quiescent elsewhere in Bengal. Fifteen cholera deaths were reported in the city of Madras during the week ending December 5.

The cholcra outbreak in Japan spread during September and October to 14 provinces, principally to those surrounding the inland sea and near Tokio, but during the week ending October 31 only 35 new cases were reported and the outbreak was definitely declining. The total number of cases reported during the two months was 508. No cholcra was reported in 1924, only 4 cases in 1923, and 743 cases in 1922, but an outbreak of more general extension occurred in Japan during 1919 and 1920.

The incidence of cholera in India continues low; the cases reported during the four weeks ended October 17 numbered 2,988, compared with 9,124 in the corresponding period of 1924.

Plague.—The following information regarding plague incidence in Guayaquil, Ecuador, one of the principal endemic plague areas in South America, is given by the Report:

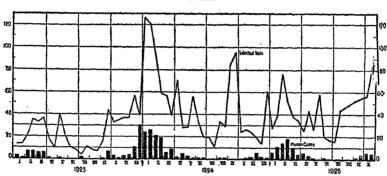
There were 11 cases and 5 deaths attributed to plague in Guayaquil in October as against 5 in September; 143 infected rats were found in October as against 108

From the Statistical Office, United States Public Health Service.

during the preceding month. December to March is the usual plague season in this city. Human and rat plague foci are centered around the southern market place, which is on the river front. The health service has for several years carried out an intensive rat campaign, the following numbers of rats having been destroyed: 152,000 in 1921, 330,000 in 1922, 448,000 in 1923, 275,000 in 1924, 217,000 up to the end of October, 1925. These numbers are remarkable in view of the fact that Guayaquil has only 100,000 inhabitants. The infection is now confined to Rattus norvegicus, a fact which probably explains the large number of infected rats found in proportion to the small number of human cases reported.

Bahia, Brazil, reported 1 case of plague in September and 1 case in October. In the week ended November 14, Bahia reported 2 cases of plague, and in the week ended November 29, Casilda de Santa Fé (Argentina) reported 1 case.

From October 1 to November 13 Greece reported 7 scattered cases of plague.



CASES OF PLACER AND INESCEED RAYS AT CUARACUL, BY FORTHIGHTLY PERIODS, 1925 TO 1925.

During November Egypt continued to report only sporadic cases of plague, several of which occurred at Port Said. Algeria reported 1 case in the period from November 11-20.

Kenya and Uganda reported 153 and 148 cases, respectively, in the month of October, both figures showing an increase over the month of September and being higher than the October 1924 report. The disease also increased in Madagascar during October, when 177 cases were reported. In West Africa, Ijebu-Ode, in Nigeria, remained the most important center of infection.

In India the plague deaths reported during the four weeks ended October 17 were somewhat fewer than in the preceding four weeks. The disease was prevalent at this period chiefly in Mysore, in the central Provinces, and in Bombay Presidency, all being localities which expect their annual maximum incidence in October. Only in Bombay Presidency was the number of cases significantly higher than in October, 1924.

Yellow fever.—Cases of yellow fever reported during the month preceding the publication of the Report were as follows: The Gold

419 March 5, 1926

Coast reported 1 case in September and 1 in October: Nigeria 1 case each in August, September, and October; Upper Senegal reported 3 cases at Tukoto in November.

The Health Service of Peru has reported that no case of yellow fever has occurred in Peru since 1922.

Typhus and relapsing fever.—Very few cases of either typhus or relapsing fever have been reported in Europe outside of Russia. In Poland, cases of typhus averaged about 20 per week during the summer and early autumn; the fatality was only 6 per cent, indicating that the type was mild.

In European Russia, including the Ukraine, the number of typhus fever cases reported dropped from 1,759 in July to 946 in August; data from a few governments were lacking for both months. Cases of relapsing fever rose slightly from 906 in July to 1,190 in August. "The increase was confined to the Lower Volga and the black soil districts, while it remained rare in the Ukraine, where it was formerly most prevalent," says the Report.

In the Union of South Africa, where there was a rather marked increase in typhus fever during July and August, the number of cases fell from 242 in August to 71 in September.

There were 213 cases of relapsing fever with 67 deaths reported in Nigeria during September.

Smallpox.—In Java and Madura the seasonal maximum of small-pox was reached early in October, as usual, when 927 cases were reported during the four weeks ended October 10, compared with 1,005 cases in the corresponding period of 1924.

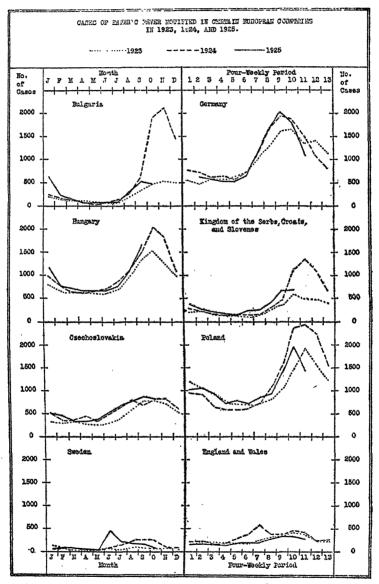
In India the smallpox incidence remained at the same level during September and October (approximately 1,000 cases weekly). November may be expected to show a seasonal increase.

Iraq reported a marked increase in smallpox during September, with a proportionately high mortality.

Smallpox prevalence in most African countries has been quite low in recent months; the outbreaks which occurred earlier in the year in such places as Algeria, Tunisia, Tanganyika Territory, and the Gold Coast Colony having come to an end. The disease is exceptionally rare in South Africa and only the mild type prevails. "Not one death occurred among the 67 cases reported in the Union of South Africa for the first nine months of the year, nor among the 51 reported in Basutoland during the same period, and only 1 death among the 101 cases reported in Northern and Southern Rhodesia. No smallpox has occurred in Nyasaland for two years, except for one case in September. While the case mortality during recent years has varied between 0.6 and 3 per cent in the Union of South Africa, it was about 10 per cent in Basutoland in 1921 and 1922 and about 3 per cent in 1923 and 1924."

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Dyse very.—The incidence of dysentery was low this year in Europe, and no recrudescence of the disease, such as occurred in October,



1924, in east central and southeastern Europe, was observed. The Report states:

Dysentery in Russia has been less prevalent than during 1924, but is still of frequent occurrence throughout the country, including the Asiatic territories. The highest prevalence is found in the Ural and Viatka areas; thus there were 7,067 cases in the Government of Viatka during August, 4,058 in the Votyak territory, and 4,027 in the Bashkir Republic.

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Enteric fever.—Enteric fever not only was less prevalent in most European countries in 1925 than in 1924, but the peak of the incidence was reached earlier in the autumn than in the preceding year, as can be seen in the accompanying graphs. The improvement was most marked in eastern and southeastern Europe, where the disease was unusually prevalent in 1924. Also in England and Wales the incidence of the disease was less than in the preceding two years.

Influenza.—No more than a seasonal increase in influenza was observed in the reports for November. The large towns in continental Europe and those in Great Britain showed an increase in the general death rate as well as in the pneumonia and influenza deaths, but it was not abnormal for the season. In the United States the mortality from influenza and pneumonia as late as December was very similar to that experienced last winter.

Lethargic encephalitis.—No increase in lethargic encephalitis was reported by any of the countries where it is notifiable.

Acute poliomyelitis.—The number of cases of poliomyelitis reported in Sweden fell from 138 in September to 98 in October and to 50 in November. In the United States, 27 States reported 306 cases in the four weeks ended November 21 compared with 683 in the preceding four weeks. Incidence in other countries reporting was lower than in either of these.

Scarlet fever.—Scarlet fever was more prevalent in the autumn of 1925 than in the corresponding season of the previous two years in Great Britain and in central Europe, but the increase indicates only the expected periodic increases rather than any special epidemic situation.

Diphtheria.—The incidence of diphtheria corresponds closely to that during the previous year in European countries and is somewhat lower in the United States, Canada, Australia, and New Zealand.

Anthrax.—Revised data concerning the occurrence of anthrax in Russia during the year 1924 shows that the areas around the Black Sea and the Caspian Sea are those most affected.

Anthrax	cases	reported	in	Russia	during	1924
---------	-------	----------	----	--------	--------	------

District	Cases	Rate per 100,000 popula- tion	District	Cases	Rate per 100,000 popula- tion
Northeastern Northwestern Western Western Central industrial Viatka-Vietluga. Ural Black soil Ukraine Middle Volga	1 22 244 646 61 363 2, 178 5, 392 1, 411	0. 04 2. 8 3. 6 1. 2 4. 5 20. 8 19. 5 14. 7	Lower Volga	1, 322 1, 878 625 522 95 559 28 148	25. 9 23. 2 11. 0 11. 7 1. 3 6. 9 1. 5

The number of cases of anthrax reported in the various Provinces in Italy is given below. The disease is particularly provalent in Latium and Basilicata.

Anthrax co	ases repo	rted in	<b>Italy</b>	during	1924
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Province	Cases	Rate per 100,000 popula- tion	Province	Cases	Rate per 100,000 popula- tion	
Piedmont Liguria Lombardy Venetia Emiha Tuscany Marches Umbria Abruzzi	37 14 32 10 5 27 14 30	1.1 1.0 .6 .25 .16 1.0 1.2 4.7 7.9	Latium Campania. Apulia Basilicata Calabria Sicily Sardinia. Total	517 200 206 359 283 252 629 2,728	31. 9 5. 6 9. 0 76. 6 18. 7 6. 2 7. 3	

#### MEASLES IN THE UNITED STATES

#### REPORTS FROM STATE HEALTH OFFICERS FOR THE FIRST SIX WEEKS OF 1926, COM-PARED WITH THE SAME PERIOD OF 1925

During the first six weeks of the year 1926 the health officers of 27 States reported about four times as many cases of measles as they reported during the first six weeks of 1925. The early part of the year 1925, however, was exceptional, very few cases of measles being reported from most localities.

Cases of measles reported by the health officers of 27 States, January 4 to February 14, 1925, and January 3 to February 13, 1926

	Week ended—											
Division and State	Jan. 10, 1925	Jan. 9, 1926	Jan. 17, 1925	Jan. 16, 1926	Jan. 24, 1925	Jan. 23, 1926	Jan. 31, 1925	Jan. 30, 1926	Feb. 1925	Feb. 6, 1926	Feb. 14, 1925	Feb. 13, 1926
New England: Maine	6 8 294 36	1,651	248	1,550	380	6	322	3 1,584	3	27 19 1, 538 714	1 4 572 68	20 5 1,564 545
Total	344	2, 224	308	2, 030	432	2, 388	449	2, 385	513	2, 298	045	2, 134
Middle Atlantic: New York New Jersey	208 127	2, 491 1, 121	285 135	1, 961 1, 028	230 89	2, 327 1, 250	252 115			2, 796 1, 928		3, 267 2, 027
Total	425	3, 612	370	2, 989	319	3, 577	367	4, 023	453	4, 724	430	5, 294
East North Central: Indiana	120 356 324	202 357 143	86 288 166 310	490 357 844 155	100 421 149 287	136 501 1, 253 162	111 493 125 301	175 610 1,601 177		567 748 1,774 274	140 035 204 422	532 691 1,754 253
Total	800	702	850	1,846	957	2, 052	1, 030	2, 563	1, 193	3, 363	1,401	3, 230

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Cases of measles reported by the health officers of 27 States, January 4 to February 14, 1925, and January 3 to February 13, 1926—Continued

	Week ended—											
Division and State	Jan. 10, 1925	Jan. 9, 1925	Jan. 17, 1925	Jan. 16, 1926	Jan. 24, 1925	Jan. 23, 1926	Jan. 31, 1925	Jan. 30, 1926	Feb. 7, 1925	Feb. 6, 1926	Feb. 14, 1925	Feb. 13, 1926
West North Central. Minnesota. Missouri South Dakota. Nebraska. Kansas.	18 8 4 2 2	31 29 3 3 3 36	13 5 3 3 5	17 20 1 3 72	86	40 42 2 69	31 7 6 5	35 41 7 1 41	3 5 1 30 5	71 173 0 15 86	38 3 0 1 8	76 71 4 9 127
Total	34	102	29	113	24	153	57	125	44	345	50	287
South Atlantic: Delaware Maryland District of Columbia North Carolina	1 55 21 35	29 690 12 54	1 38 4 19	17 749 19 44	2 17 13 21	49 1,337 26 122	3 58 6 27	1, 249 32 162	1 66 7 13	66 1,589 24 110	0 92 12 19	257 1,416 68 290
Total	112	785	62	829	53	1, 534	94	1, 527	87	1,789	123	2, 031
East South Central: Alabama Arkansas Texas	11 42 85	9 0 2	20 49 37	21 0 0	19 53 66	10 2 4	11 31 15	21 1 9	43 50 171	22 2 5	40 27 173	53 7 10
Total	138	11	106	21	138	16	57	31	264	29	240	70
Mountain Wyoming New Mexico Arizona	2 14		1 43 55	4 5 2	1 17 53	0 0 1	1 13 163	1 1 1	9 74	5 0	2 45 19	2 1 3
Total	16	1	99	11	71	1	177	3	83	5	66	6
Pacific: Washington Oregon California	68 6 32	7	42 6 52	11 8 38	69 0 48	12 13 43	1 3 41	16 14 62	14 2 37	11 16 58	4 6 28	23 20 85
Total	106	66	100	57	117	68	45	92	53	85	38	128
Grand total	1,975	7, 503	1,924	7,896	2, 111	9, 789	2, 276	10, 749	2, 690	12, 638	2,993	13, 180

#### SMALLPOX IN FLORIDA

Surg. John McMullen, who has recently investigated the smallpox situation in Florida, states that official reports to the State health officer to February 15, 1926, showed that practically all parts of the State were having cases of smallpox. The great majority of the cases were mild.

The State health authorities and many of the local health officers, especially in the cities, have done good work in informing the people of the need for vaccination and revaccination and in vaccinating contacts, school children, and other persons, but in some sections of the State this work has met opposition, as the effects of publicity are feared.

Not all of the cases in the State are reported, but the following table shows the number of cases reported to the State health officer from December 1, 1925, to February 10, 1926, inclusive.

Cases of smallpox reported in Florida December 1, 1925, to February 10, 1926, inclusive, by counties and certain cities

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Location	Dec 501- ber, 1928	January, 1926	Feb. 1- 10, 1026	Total
AND PROCESSIONS OF A CONTROL OFFICE AND ADMINISTRATION OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF				
State	63	322	170	557
		2		
Alachua County		1		ĩ
Rievard County		10	1	11
Broward County, except Fort Lauderdale			2	2
Fort Lauderdale		1	3	4
Citrus County		14	- 1	14
Columbia County Dado County, except Miami		2	2	4
Miami Duval County, except Jacksonville	. 25	82	49	156
Duval County, except Jacksonville	13	35	4 32	80
Jacksenville Escambia County, except Pensacola		4	32	5
Pensacola		1		2
Gadsdon County		2	1	3
Highlands County	. 3	10	2	5 10
Hillsboro County, except Tampa Tampa	13	122	46	181
Jefferson County		1		1
Leon County		2		3
Manatee County	. 1	2 5	1	4 5 8
Marion County Orange County, except Orlando	-	7		ន័
Palm Beach County, except West Palm Beach		3		3
West Palm Beach			20	20
Pasco County. Pinollas County, except St. Petersburg.	3	5	1	6 7
St. Potersburg	- 3	•	2	2
St. Johns County	1			ī
St. Lucie County		3		3 2
Sarasota County	- 2	<u>-</u>		2
Seminole County				i
Sumter County			i	î
Union County	.)	. 1		1
Volusia County Levy	-	. 1		1 2
110 Y y	-	1	1 1	-

### DIVISION OF VENEREAL DISEASES, JULY 1-DECEMBER 31, 1925

The accompanying tables present a statistical report of the medical work of the Division of Venereal Diseases during the six months ended December 31, 1925, summarizing the activities of the venereal-disease clinics and showing the number of cases of venereal diseases reported to the State boards of health during that period.

During the half year, 30,182 cases of syphilis were admitted to the 423 venereal-disease clinics reporting, this disease constituting more than half the total number of cases. The relative proportions of the three diseases were as follows: Syphilis, 55.1 per cent; gonorrhea, 42.3 per cent; chancroid, 2.6 per cent. At these clinics 1,091,056 treatments were given, including 242,788 doses of arsphenamine administered. There were 25,058 patients discharged as noninfectious.

Table 2 shows that 40 States (some reports not for the full period) reported 194,721 cases of syphilis, genorrhea, and chancroid during the last six months of 1925, the percentages of these diseases being as follows: Syphilis, 53.6 per cent; genorrhea, 44.7 per cent; chancroid, 1.6 per cent.

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Table 1.—Summary of reports of venereal disease clinics, including those operating under the joint control of the United States Public Health Service and State boards of health, for the six months, July 1-December 31, 1925 ¹

•	Num-	1.	Pa	uients a	dmitte	d	Patients dis- charged as non- infec- tious	Treat- ments given	Doses of ars- phen- amin given		Micro- scopic exami- nations (gono- coccus)
State	of elin- ics	of ber of reports re- ceived	Total	Syph- ilis	Gonor- rhea	Chan- croid				Wasser- mann tests made	
United States	423	2, 361	54, 753	30, 182	23, 143	1, 423	25, 058	1, 091, 056	242, 788	163, 096	100, 753
Alabama	14	84	5,372	3, 789	1, 424	159	3, 282	63, 871	23, 875	7,748	1, 407
Arkansas California Colorado Connecticut	12	51 70 30 36	1,787 3,241 356 487	1, 221 1, 989 144 221	528 1, 239 206 253	38 13 6 13	1, 692 473 305 238	37, 419 59, 742 9, 637 9, 042	6, 779 24, 796 1, 294 2, 428	4,520 11,260 757 967	1, 840 2, 284 964 1, 056
Delaware Florida 3 Georgia	8 6	17 30 36	124 692 1,566	78 385 1, 198	36 237 354	10 70 14	66 220 378	1, 564 4, 724 19, 164	661 2, 468 6, 859	195 1,325 5,948	77 184 444
Idaho ¹ Illinois Indiana Iowa ⁴	26	152 114	6, 885 1, 996	2, 736 924	3, 985 1, 013	164 59	2, 404 510	191, 393 80, 139	24, 240 10, 621	27, 172 4, 303	25, 460 1, 887
Kansas Kentucky Louisiana Maine Maryland Massachusetts 5	18	38 96 14 23 77	478 2,593 1,084 124 1,293	219 1, 308 627 58 505	259 1, 226 436 61 711	59 21 5 77	351 1,353 1,016 145 704	23, 608 24, 378 9, 990 3, 399 25, 199	3, 359 6, 555 4, 522 1, 217 6, 179	862 3,446 2,064 449 1,944	509 1, 184 1, 430 185 1, 856
Michigan Minnesota Mississippi Missouri Montana 4	2	80 24 12 87	3, 717 566 210 1, 852	2,000 255 160 1,293	1,711 310 33 535	6 1 17 24	468 399 111 397	61, 893 15, 160 1, 693 56, 564	9, 958 4, 286 877 5, 833	14,867 1,351 416 4,320	14, 740 859 203 2, 281
Nebraska Nevada	1	30	595	249	338	8	271	16, 213	4, 326	2, 251	3, 108
New Hampshire. New Jersey New Mexico 6	4 20	20 110	65 1, 224	36 731	29 486	7	24 382	3, 516 25, 087	5, 832	3, 298	90 1,913
New York North Carolina 4.		270	2, 843	1,717	1,086	40	2, 553	64, 879	19,766	6, 122	3, 558
North Dakota Ohio Oklahoma	. 48	9 268	5, 252	2, 730	2, 377	145	1,634	101, 718	19, 863	18, 988	8, 953
Oregon Pennsylvania Rhode Island South Carolina South Daketa	46 6 2	268 36 6 8	2, 679 321 513 10	1, 286 172 209 4	1, 351 149 298 6	42	1, 979 46 573 10	2, 786 80, 953 6, 546 7, 347 245	733 13,513 2,907 1,249 96	350 6,043 2,726 183 37	372 2, 632 2, 288 1, 700
Tennessee ? Texas ! Utah !	. 4	17 19	1, 931 1, 456	1, 108 814	609 512	214 130	1,083 893	26, 185 20, 345	7, 413 5, 559	9, 417 3, 389	2, 249 5, 576
Vermont Virginia Washington West Virginia Wisconsin Wyoming i	8 3 12	44	33 1,077 524 859 774	25 732 238 539 374	317 276 284 399	28 10 36 1	16 477 194 238 153	533 10, 940 9, 127 9, 078 6, 762	346 5, 136 1, 131 3, 834 3, 321	192 5,336 3,414 1,565 5,422	1, 671 3, 801 947 2, 834

¹ Including correctional and penal institutions, 2 No clinics. 4 For five months only, 5 Not reporting.

Separate report of clinics discontinued.
Clinics discontinued.
For three mouths only.
For four months enly.

Table 2.—Cases of venereal diseases reported to State boards of health, July 1-December 31, 1925

State	Total	Syph- ilis	Gonor- rhea	Chan- eroid	State	Total	Syph- ilis	Gonor- rhea	Chan- croid
United States Alabama Arizona i Arkansus California Colorado Connecticut Delawaro Florida s Georgia Idaho Illinois Indiana Iowa i	7, 808 2, 128 9, 858 1, 119 1, 190 361 3, 281 6, 358 137 15, 860	104, 431 4, 731 1, 333 5, 558 279 569 111 2, 121 3, 082 29 5, 368 1, 008	87, 146 2, 861 751 4, 088 816 015 208 1, 064 3, 125 108 10, 278 1, 021	3, 144 216 44 212 24 6 42 96 151 214 59	Montana 1 Nebraska Nevada 1 New Hampshire New Hersey New Mexico 3 New York North Carolina 1 North Dakota Ohio Oklahoma 1 Oregon Pennsylvania Rhode Island South Carolina 4 South Carolina 4	2, 193 191 4, 519 57 19, 579 695 5, 252 979 2, 679 484 4, 816	713 90 2,650 11 14,515 167 2,730 240 1,286 208 1,917	1, 452 101 1, 835 44 5, 024 527 2, 377 736 1, 351 275 2, 893	28 34 2 40 1 145 3 42 1 6
Kansas Kentucky Louislana Maine Maryland Massachusetts Michigan Minesota Mississippi Missouri	863 22, 655 3, 488 501 2, 917 3, 901 13, 010 5, 718 15, 379 4, 229	260 15, 413 1, 831 1, 525 1, 044 6, 852 2, 584 6, 401 1, 960	596 7, 158 1, 413 348 1, 235 2, 857 6, 111 3, 098 8, 978 1, 941	7 84 244 7 157 	South Dakota - Tennessee : Texas : Utah ' Vermont - Virginia - Washington - West Virginia - Wisconsin - Wyoming '	352 2, 452	26 1,318 11,347 156 802 345 3,342 363	321 871 6, 416 219 442 607 1, 599 1, 386	263 413 

¹ Not reporting. ² For five months only.

### DEATHS DURING WEEK ENDED FEBRUARY 20, 1926

Summary of information received by telegraph from industrial insurance companies for week ended February 20, 1926, and corresponding week of 1925. (From the Weekly Health Index, February 24, 1936, issued by the Burcau of the Census, Department of Commerce)—

	Week ended Feb. 20, 1926	Corresponding week, 1925
Policies in force.	61, 743, 301	58, 724, 193
Number of death claims	14, 698	12, 992
Death claims per 1,000 policies in force, annual rate.	12. 4	11. 5

For two months only.
For three months only.

⁴ For four months only.

Deaths from all causes in certain large cities of the United States during the week ended February 20, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, February 24, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week end 20, 1	ded Feb. 1926	Annual death rate per	Deaths ye	under 1 ear	Infant mortality
City	Total deaths	Death rate ¹	rate per 1,000 corre- sponding week, 1925	Week ended Feb. 20, 1926.	Corresponding week, 1925	ate, week ended Feb. 20, 1926 ²
Total (68 cities)	9, 026	16. 4	14. 5	1,054	949	8 86
Akron. Albany '. Atlanta. White. Colored Baltimore '. White. Colored. Birmingham White. Colored Boston. Bridgeport Buffalo. Cambridge Camden Chicago '. Cincinnati Cleveland Columbus Dallas. White Colored Boston. Bridgeport Buffalo. Cambridge Camden Chicago '. Cincinnati Cleveland Columbus Dallas. White Colored Dayton Denver Des Moines Dostrott Duluth El Paso Brie Fall River '. Finit Fort Worth White Colored Grand Rapids	5, 026  57 61 120 66 54 43 352 257 91 49 42 260 263 797 153 227 83 60 23 343 343 343 340 347 29 20 39 20 30 30 30 30 30 30 30 30 30 30 30 30 30	10. 4  27. 0  23. 0  (5) 23. 1  17. 6 10. 6 21. 5 13. 9 19. 5 12. 6 17. 4 14. 4 14. 2 22. 4  11. 7 8. 0 13. 3	14. 5  19. 9  16. 8  24. 6  17. 7  11. 7  16. 1  11. 3  13. 1  16. 7  12. 9  14. 6  14. 7  14. 7  14. 7  14. 7  19. 1  11. 8  19. 4  18. 2  13. 3	7 63 13 8 5 5 5 2 20 20 21 21 21 21 21 21 21 21 21 21 21 21 21	9 7 9 7 9 23 23 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	* 86 74 126 93 71 195 90 158 129 50 135 89 87 98 46 
Houston White Colored	107 65 42	33.8	19.3	21 13 8	7 7	40
Indianapolis White Colored Jacksonville, Fla. White Colored. Kansas City, Kans. White Colored Kansas City, Mo	114 105 9 54 22 32 37 27 10	(5) 26.8 (5) 16.6 (6)	17.4	76 1 4 2 2 5 3 2 17 23 13	13	51 51 55 83 65 114 87 63
Kansas City, Mo Los Angeles Louisville White Coloied Lowell Lynn Memphis	95 324 85 60 25 29	(5) 13, 5 14, 7 (5) 13, 7 17, 7	15. 9 12. 9 13. 7 11. 6	12 1 3 8	15 22 10 5	72 112 120 63 56 20
W lite Colered Milwaukee Minneapolis Nashville 4 White	86 40 46 131 112 62 23	(5) 13. 6 13. 7 23 7	20 9 12.0 13.4 16 1	10 3 7 8 9 6 4	18 16 8	50
Colored New Bedford New Haven New Haven New Orleans White Colored	. 29 31 61 231 135	19 5 17. 8 29. 4	16.6	2 4 0 25	18	

Deaths from all causes in certain large cities of the United States during the week ended February 20, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, February 24, 1926, issued by the Bureau of the Census, Department of Commerce)—Contd.

	Week end 20, 1		Annual death rate per		under 1 ear	Infant mortality rate.
City	Total deaths	Death rate ¹	1,000 corre- sponding week, 1925	Weel: ended Feb. 20, 1926	Corre- sponding week, 1925	week ended Feb. 20, 1926 ²
New York  Broox boro  Brooklyn boro  Manhattan boro  Queens boro  Richmond boro  Newark, N. J.  Norfolk  White  Colored  Oakland  Oklahoma City  Omaha  Paterson  Philadelphia  Pittsburgh  Portland, Oreg  Providence  Richmond  White  Colored  Colored  Archive  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection  Selection	46 112 44 19 25 63 26 70 53 688 205 74 82 219 99 51 148 82 219 219 219 225 237 243 25 25 25 219 27 27 27 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	16. 5 13. 6 15. 0 21. 3 21. 7 17. 3 12. 9 12. 9 13. 7 15. 8 27. 7 16. 15. 9 14. 4 11. 1 12. 0 15. 0 15. 9 24. 8 11. 5 24. 8 11. 5 24. 6 15. 9 24. 8 11. 5 24. 6 11. 5 12. 11. 12. 11. 12. 13. 14. 14. 11. 11. 11. 12. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	13. 6 11. 1 12. 0 18. 3 8. 9 13. 6 13. 4 11. 7 11. 1 11. 4 16. 9 17. 8 12. 6 13. 6 13. 6 13. 6 14. 6 14. 6 14. 6 14. 6 14. 6 15. 1 15. 1 15. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 16. 1 1	208 15 77 97 17 10 4 4 10 4 4 73 3 3 0 0 18 11 10 5 5 1 7 7 13 3 3 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	169 19 60 73 15 15 18 3 70 30 9 8 8 7 6 13 7 7 6 8 8 2 10 7 7 4 4 5 7 2 10 7 7 4 4 5 7 10 7 10 7 10 7 10 7 10 7 10 7 10 7	\$44 500 78 777 777 777 777 707 91 744 309 419 419 419 429 441 441 441 441 441 441 441 44

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1925. Cities left blank are not in the registration area for births.

Data for 63 cities.
Deaths for week ended Friday, Feb. 19, 1926.

In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentage of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.

### PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

### UNITED STATES

#### CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

#### Reports for Week Ended February 27, 1926

ALABAMA	Cases	ARKANSAS—continued	Cases
Cerebrospinal meningitis	1	Mumps	40
Chicken pox	81	Ophthalmia neonatorum.	1
Diphtheria	37	Pellagra	8
Influenza		Scarlet fever	
Lethargic encephalitis	1,750	Smallpox	3
Malaria	23	Trachoma	2
Measles	54	Tuberculosis	16
	51	Typhoid fever	1
Mumps	38	Whooping cough	32
Pellagra		CALIFORNIA	
Pneumonia	170 31	CALIFORNIA	
Scarlot fever	35	Cerebrospinal meningitis:	
Smallpox	35 7	Los Angeles	3
Tetanus	•	Los Angeles County	4
Tuberculosis	196	Sacramento	1
Typhoid fever	32	Woodland	1
Wheoping cough	54	Chicken pox	449
ARIZONA		Diphtherin	121
Chicken pox	25	Influenza	383
Diphtheria	1	Measles	90
Influenza.	3	Mumps	306
Mumps	11	Poliomyclitis—Fresno	1
Pneumonia	2	Scarlet fever	155
Scarlet fever	7	Smallpex:	
Trachoma	1	Los Angeles	
Tuber culosis	2	Los Angeles County	12
Typhoid fever	1	Scattering.	
Whooping cough	3	Typhoid fever	
ARKANSAS		Typhus Fver—Los Angeles	1
,		Whooping cough	58
Chicken pox	26	401.001.00	
Diphtheria	13	COLORADO	
Hookworm disease	28	Cheken pox	
Influenza	437	Diphtheria	
Malaria	21	Influenza	
Measles	4	Measles	14

conorm-continued C	'ย-64		Cases
Mumr,	1	Telanus	1
Pneumonia.	8	Tuberculosis.	33
Searlet fever	27	Typhoid fever	2
Smallpox	1	Whooping cough.	20
Tuberculosis	26	OHADI	
Vincent's angina	1		
Whooping cough	55	Cerebrospinal meningitis:	
CONNECTICUT		Aberdeen	1
	79	American Falls	
Chieken pox	15	Lane.	
Diphtheria	56	Moscow.	
German measles	22	Chicken pox	
Influenza	22	Diphtheria.	
Lethargic encepablitis	1	Influenza	
Measles	535	Measles	4
Munips	8	Mumps	
Paratyphoid fever	1	Pneumonia	
Pneumonia (broncho)	58	Scarlet fever	. 17
Pneumonia (lobar)	46	Smallpox:	
Searlet fever	98	Mountain Home	
Septic sore throat	1	Scattering.	
Tuberculosis (all forms)	39	Tuberculosis	
Whooping cough	77	Whooping cough	. '
DELAWARE		ILLINOIS	
Chicken pox	7	Diphtheria	120
Diphtheria	3	Influenza	
Influenza	35	Lethargic encephalitis:	
Malaria	1	Knox County	. 1
Measles	159	Schuyler County	
Pneumonia	13	Measles	
Scarlet fever	2	Pneumonia	521
Smallpox	1	Poliomyelitis:	
Tuberculosis	4	Christian County	
Typhoid fever		Stark County	
Whooping cough	3	Scarlet fever	. 621
FLORIDA		Smallpox:	
	00	Cook County	
Chicken pow		Scattering.	
Diphtheria		Tuberculosis	
Influenza		Typhoid fever	. 10
Malaria Measles		Whooping cough	22)
		INDIANA	
Mumps Pneumonia		Chicken pox	117
Scarlet fever		Diphtheria	_
Smallpox		Influenza	158
Tetanus			2, 892
Tuberculosis.		Mumps	
Typhoid fever		Pneumonia	
Whooping cough	12	Poliomyelitis	
		Scarlet fever	283
GEORGIA		Smallpox	167
Chicken pox	. 22	Tuberculosis	. 44
Diphtheria		Typhoid fever	. 10
Dysentery		Whooping cough	167
Hookworm disease		AWOI	
Influenza.			
Malaria		Cerebrospinal meningitis.	
Measles		Chicken pox.	
Mumps		Diphtheria	
Paratyphoid fever		German measles	
Pneumonia.		Measles	
Scarlet fever		Mumps	
Septic sore throat	. 1	Pneumonia	26
Smallpox	. 15	Poliomyelitis	2

10WA—continued	Cases	MASSACHUSETTS .	Cases
Scarlet fever			Cases
Smallpox:		Cerebrospinal meningitis	1
Council Bluffs	38	Chicken por	210
Scattering		Conjunctivitis (suppurative)	10
Tuberculosis		Diphtheria	69
Whooping cough	31	Hookworm disease	208
Kansas		Influenza	1 14
Annons		Letharigic encephalitis	3
Cerebrospinal meningitis:		Measles	
· Munden	1	Mumps	87
Wichita	1	Ophthalmia neonatorum	28
Chicken pex	51	Pneumonia (lobar)	123
Diphtheria		Poliomyelitis	1
Influenza		Scarlet fever	241
Measles	188	Tuberculosis (pulmonary)	109
Mumps	29	Tuberculosis (other forms)	25
Pellagra	1 110	Typhoid fever	9
Pneumonia Scarlet fever	80	Whooping cough	456
Smallpox		MICHIGAN	
Trachoma		Diphtheria	103
Tuberculosis	18	Measles	
Whooping cough		Pneumonia	203
		Scarlet fever	332
LOUISIANA		Smallpox	7
Diphtheria		Tuberculosis	289
Influenza		Typhoid fever	3
Lethargic encephalitis		Whooping cough	367
Pneumonia			
Scarlet fever		MINNESOTA	
Smallpox		Cerebrospinal meningitis	2
Tuberculosis		Chicken pox	146
Typhoid fever		Diphtheria	62
Whooping cough	11	Influenza	2
MAINE		Measles	189
Chicken pox	11	Pneumonia	5 358
Diphtheria		Smallpox	3
German measles		Tuberculosis	82
Influenza.		Typhoid fever	5
Measles		Whooping cough	43
Mumps			
Pneumonia	43	MISSISSIPPI	
Scarlet fever	35	Diphtheria	14
Septic sore throat	6	Influenza	
Tuberculosis		Scarlet fever	8
Typhoid fever		Smallpox Typhoid fever	12 1
Vincent's angina		<b>\</b>	1
Whooping cough	33	MISSOURI	
MARYLAND 1		Cerebrospinal meningitis	3
Cerebrospinal meningitis	. 1	Chicken pox	
Chicken pox		Diphtheria	90
Diphtheria		Influenza	
Dysentery		Measles	282
German measles	. 1	Mumps	
Influenza.		Ophthalmia neonatorum	
Measles		Pneumonia	
Mumps		Poliomyelitis	. 2
Pneumonia (broncho)		Rabies (in animals)	
Pneumonia (lobar)		Scarlet fever Smallpox	
Scarlet fever		Tetanus	
Septic sore throatSmallpox		Tuberculcsis	
Tuberculosis		Typheid fevet	
Whooping cough		Whooping cough	
Whooping cought	. 20	C 11 WASTERN CARROL T TH CHARLESTER ADDITIONS	. "

1 Week ended Friday.

Chicken pox	24 163 255 1 30 32 2 136
Diphtheria	163 255 1 30 30 30 30 30 30 30 30 30 30 30 30 30
Influenza	255 1 30 32 136 y) 27 11 7 1, 291 29 12 208 157
Measles	1 30 32 2 2 136 y) 27 11 7 7 1, 291 2 9 2 1 1 2 2 9 1 1 1 2 5 7
Mumps	- 30 - 32 - 22 - 136 - 27 - 1, 291 - 7 - 1, 291 - 8 - 13 - 209 - 1 - 208 - 57
Smallpox	- 30 - 32 - 22 - 136 - 27 - 1, 291 - 7 - 1, 291 - 8 - 13 - 209 - 1 - 208 - 57
Tuberculosis	2 2 2 336 y) - 27 - 11 7 7 - 1, 291 - 8 - 13 - 208 - 1 - 57
NEBRASKA	2 136  y) 27 11 7 1,291 8 13 29 208 11 208 57
NEBRASKA	y) - 27 - 11 - 7 - 1,291 - 8 - 13 - 20 - 1 - 208 - 57
NEBRASKA   42   OKLAHOMA	y) - 27 - 11 - 7 - 1,291 - 8 - 13 - 20 - 1 - 208 - 1
Circhen pox   Circhen pox   Circhen pox   Diphtheria   Circhen pox   Diphtheria   Circhen pox   Diphtheria   Dysontcry   Influenza   Dysontcry   Influenza   Dysontcry   Influenza   Dysontcry   Influenza   Dysontcry   Influenza   Malaria   Measles   Mumps   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen pox   Circhen p	27 - 11 - 7 - 1, 291 - *8 - 13 - 20 - 1 - 208 - 1
Chicken pox   Chicken pox   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   D	27 - 11 - 7 - 1, 291 - *8 - 13 - 20 - 1 - 208 - 1
Chicken pox   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Diphtheria   Di	11 7 7 1, 291 8 13 29 1 1 208 1 1 57
Measles	7 1, 291 8 13 29 1 208 1 57
Mumps	_ 1, 291 _
Mumps	- 8 - 13 - 29 - 1 - 208 - 1 - 57
Preumonia	13 29 1 208 1 57
Measles	29 1 208 1 57
Mumps	_ 1 _ 208 _ 1 _ 57
Tuberculosis	208 1 57
Whooping cough 27 Whooping cough 27 Cerebrospinal meningitis 22 Chicken pox 347 Diphtheria 68 Influenza 44 Malaria 1 1 Measles 2, 160 Pneumonia 229 Scarlet fever 197 Typhoid fever 6 Whooping cough 72 Chicken pox 17 Diphtheria 18 Influenza 69 Measles 67 Mumps 14 Influenza 69 Measles 67 Mumps 14 Thereulosis 77 Whooping cough 38 Whooping cough 38 Whooping cough 38 Whooping cough 38  NEW YORK (Exclusive of New York City)  Poliomyelitis—Atoka. Scarlet fever	208 1 57
Poliomyelitis—Atoka.   Scarlet fever.   Smallpox:   Caddo.   Scarlet fing.   Scarlet fever.   Smallpox:   Caddo.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet fing.   Scarlet f	. 1 . 57
NEW JERSEY   Scarlet fever   Smailpox   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   Scattering   Caddo   S	. 57
Cerebrospinal meningitis	
Chicken pox	
Seatteing   Seatteing   Seatteing   Typhoid fever   Whooping cough   Whooping cough   Seatteing   Typhoid fever   Seatteing   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   OREGON   O	_ 16
Influenza	
Malaria         1         Whooping cough           Measles         2, 160           Pneumonia         229           Scarlet fever         197           Typhoid fever         6           W hooping cough         72           NEW MEXICO         Measles           Chicken pox         Mumps           Diphtheria         18           Influenza         69           Measles         6           Measles         6           Mumps         14           Pneumonia         32           Prelumonia         32           Prelumonia         32           Prelumonia         32           Prelumonia         32           Prelumonia         32           Typhoid fever         Whooping cough           Scarlet fever         8           Tetanus         1           Tuberculosis         7           Whooping cough         2           NEW YORK         6           (Exclusive of New York City)         Measles	
Measles	
Pneumonia	_ 11
Cerebrospinal meninguis   Cerebrospinal meninguis	
Scarlet lever	. 2
Typhoid fever	
NEW MEXICO	
Mew Mexico   Measles   Mumps   Pneumonia   Pneumonia   Scarlet-fever   Smallpox   Tuberculosis   Typhoid fever   Pneumonia   Typhoid fever   Pneumonia   Typhoid fever   Pneumonia   Typhoid fever   Pneumonia   Typhoid fever   Pneumonia   Typhoid fever   Pneumonia   Typhoid fever   Pneumonia   Typhoid fever   Pneumonia   Typhoid fever   Pneumonia   Typhoid fever   Pneumonia   Typhoid fever   Pneumonia   Typhoid fever   Pneumonia   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fever   Typhoid fev	
Chicken pox	
Diphtheria	
Influenza	
Measles 6 Mumps 14 Pneumonia 32 Poliomyelitis 1 Scarlet fever 8 Tetanus 1 Tuberculosis 37 Whooping cough 38 Whooping cough 38 NEW YORK (Exclusive of New York City)  Smallpox Tuberculosis Typhoid fever Whooping cough Cerebi ospinal meningitis Chicken pox Diputheria German measles Measles	
Mumps 14 Tuberculosis Pneumonia 32 Typhoid fever. Poliomyelitis 1 Whooping cough. Scarlet fever 8 PENNSYLVANIA Tetanus 1 Tuberculosis 37 Chicken pox Diphtheria. NEW YORK (Exclusive of New York City)  Measles Typhoid fever. Cerebi ospinal meningitis Chicken pox Diphtheria. German measles Measles	
Pneumonia 32 Typhoid fever.  Poliomyelitis 1 Scarlet fever 8 Tetanus 1 Tuberculosis 37 Whooping cough 38 Whooping cough 38  NEW YORK (Exclusive of New York City)  Typhoid fever. Whooping cough Cerebrospinal meningitis Chicken pox Diphtheria German measles Measles	
Poliomyelitis 1 Scarlet fever 8 Tetanus 1 Tuberculosis 37 Whooping cough 38 Whooping cough 37 Whooping cough 37 Whooping cough 57 Whooping cough 67 NEW YORK 61 (Exclusive of New York City) Measles 67  Whooping cough 7  Cerebo ospinal meningitis 7 Chicken pox 7 Diphtheria 6 German measles 7 Measles 7	
Scarlet fever 8 PENNSYLVANIA Tetanus 1 Tuberculosis 37 Whooping cough 38 NEW YORK (Exclusive of New York City)  Beautiful fever 1	
Tetanus 1 Tuberculosis 37 Whooping cough 38 NEW YORK (Exclusive of New York City)  Cerebrospinal meningitis. Chicken pox Diphtheria. German measles. Measles.	_ 56
Tuberculosis 37 Whooping cough 38 NEW YORK (Exclusive of New York City) German measles Measles	
Tuberculosis 37 Chicken pox Whooping cough 38 Diphtheria German measles Measles Measles	. 1
NEW YORK (Exclusive of New York City)    Diphtheria   German measles   Measles   Measles   German measles   Measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German measles   German	
NEW YORK German measles.  (Exclusive of New York City) Measles.	
(Exclusive of New York City) Measles	
Cerebrospinal meningitis 4 Mumps	
Chicken pox	
	. (30)
	-
Influenza 270 Scarlet fever	
Lethargic encephalitis 4 Tuberculosis	- 86
Measles 1, 418 Typhoid fever	
Mumps 207 Whooping cough	_ 335
Ophthalmia neonatorum 1 SOUTH DAKOTA	
Pneumonia 356 Chicken pox	70
Poliomyelitis 3 Diphtheria	
Searlet fever 202 Measles	_ 3
Septic sore throat 6 Mumps	_ 3
, Tetanus 1 Pneumonia	- 36 - 36
Typhoid fever 10 Scarlet fever	- 36 - 36
Vincent's angina 8 Typhoid fever	- 36 - 36 - 128
Whooping cough 474   Whooping cough	- 36 - 128 - 2 - 84
Deaths.	- 36 - 36 - 128 - 2 - 84 - 3

TENNESSEE	Cases	WASHINGTON	Cases
Cerebrospinal meningitis—Knoxville		Cerebrospinal meningitis—Seattle	2
Chicken pox		Chicken pox	103
Diphtheria		Diphtheria	30
Influenza Malaria		German measles Measles	33
Measles		Mumps	10 86
Mumps		Pneumonia.	1
Ophthalmia neonatorum		Scarlet fever	87
Pellagra	4	Tuberculosis	38
Pneumonia		Typhoid fever	2
Rabies		Whooping cough	33
Scarlet fever		WEST VIRGINIA	
Smallpox	13	Diphtheria	2
Tuberculosis Typhoid fever	44 6	Influenza	6
Whooping cough		Typhoid fever	3
		WISCONSIN	
TEXAS		Milwaukee:	
Chieken pox		Chicken pox	111
Diphtheria		Diphtheria	19
Influenza		German measles	5
Measles	1 44	Measles	31
Paratyphoid fever		Mumps Pneumonia	40 18
Pellagra		Scarlet fever	24
Pneumonia		Tuberculosis	13
Scarlet fever.	53	Whooping cough	68
Smallpox		Scattering:	
Tuberculosis	39	Cerebrospinal meningitis	3
Typhoid fever		Chicken pox	119
Whooping cough	21	Diphtheria German measles	41
UTAH		Influenza	47 58
Chicken pox	51	Measles	402
Diphtheria	11	Mumps	135
Influenza		Pneumonia	31
Measles	2	Scarlet fever	155
Mumps Ophthalmia neonatorum—Farmington	44	Smallpox	11
Pneumonia	4	Tuberculosis	53
Scarlet fever	4	Typhoid fever	3
Smallpox		Whooping cough	120
Whooping cough		WYOMING	
VERMONT		Chicken pox	9 4
	34	German measles	2
Chicken pox		Mumps	25
Measles		Pneumonia	15
Mumps		Scarlet fever	13
Scarlet fever		Smallpox	1
Typhoid fever	2	Tuberculosis	1
Whooping cough	24	Whooping cough	11
Report for Weel	c End	led February 20, 1926	
NORTH DAKOTA	Cases	NORTH DAKOTA—continued	Cases
Chicken pox		Pneumonia	22
Diphtheria		Scarlet fever	112
German measles		Smallpox	9
Lethargic encephalitis	1	Tuberculosis	8
Measles		Typhoid fever	2
Mumps	55	Whooping cough	14
82790°—26——2			

### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week.

State	Cere- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Searlet fever	Small- pox	Ty- phoid fever
January, 1936  Alabama Florida Idaho Illinois Indiana Iowa Kansas Maine Maryland Michigan Minnesota New York Ohio Oklahoma¹ Rhode Island Wyoming	4 37 77 10 3 1 2 2 11 3 5	118 72 23 486 189 86 101 27 131 400 282 1,040 513 128 69	941 80 501 146 288 0 0 105 29 1,936 456 37 1,992 43 23	35 47 07 00 00 10 03 57 00	78 20 1, 825 642 250 51 4, 834 9, 335 11, 997 40 2, 214 7	37	3 0 0 11 4 2 2 4 0 1 5 14 2 0 0	98 42 63 1, 847 295 411 165 205 1, 452 1, 434 1, 770 1, 655 155 52 75	157 322 177 158 32 0 0 80 9 28 5 463 73 0 7	50 32 2 111 28 7 11 11 21 39 19 185 57 60 2

¹ Inclusive of Tulsa and Oklahoma City,

## Number of Cases of Certain Communicable Diseases Reported for the Month of December, 1925, by State Health Officers

State	Chick- en pox	Diph- theris	Measles	Mumps	Scarlet fever	Small- pox	Tuber- culosis	Ty- phoid fever	Whoop- ing cough
Alabama Arizona Arkansas California Colorado Connecticut Delaw are District of Columbia Florida Georgia Idaho Illinois Indiana	1,835	117 11 27 547 113 185 35 106 112 93 14 540 228	14 3 6 131 30 787 35 27 22 14	124 52 11 985 5 37 61 53	74 49 45 667 91 276 17 89 40 30 45 1,755 918	64 0 11 278 4 0 64 22 137	135 64 37 850 178 92 8 81 174 86	70 15 56 59 25 30 3 50 61 297 38	48 37 295 148 224 25 60 35 28 612
Iowa Kansas Kentucky	256 577	95	84	60	233	15	224	30	246
Louislana Maine Maryland Massachusetts Minnesota Minnesota Mississippi Missouri Montana Nobraska Nevada 4 New Hampshire4	1,018 629 376 441 137	136 15 139 390 448 311 159 316 41 47	8 13 1, 184 5, 583 1, 215 31 1, 209 50 12	1 103 358 197 51 643 100 289	73 126 226 988 1,385 1,160 88 660 150 178	121 0 0 0 75 29 77 37 27	4 171 4 20 226 474 432 263 279 185 52	67 25 73 34 103 26 139 22 21 10	24 87 189 1, 063 687 90 669 87 64
New Jersey New Mexico 5	1, 564	451	1,896		785	0	330	46	196
New York North Carolina North Dakota Ohio Oklahoma Oregon Pannsylvania Rhode Island South Carolina South Dakota	1, 677 91 121 2, 984 71	1, 053 255 28 617 157 159 890 117 288 40	7, 311 105 14 4, 640 16 24 4, 387 1, 385 34	125 65 15 131 460 7 20		2 45 10 246 39 93 0 0 58	1, 558 8 522 76 86 525 36 127 20	232 46 7 74 149 20 149 6 104	1, 264 221 80 729 76 104 987 53 137 44

Report not required by law. Reports received weekly, Pulmonary.

<sup>Reports received annually.
Report not received at time of going to press.</sup> 

#### Number of Cases of Certain Communicable Diseases Reported for the Month of December, 1925, by State Health Officers-Continued

State	Chick- en pox	Diph- theria	Measles	Mumps	Scarlet fever	Small- pox	Tuber- culosis	Ty- phoid fever	Whoop- ing cough
Tennessee 6	126	89	108	7	178	27	127	97	51
Utah	679	174	23	23	110	39	³ 10	7	172
Vermont	243	18	45	21	53	0	³ 19	3	161
Virginia	631	324	441	259	438	34	³ 109	63	421
Washington	532	92	68		384	322	101	17	175
West Virginia	199	129	267	575	234	3	41	91	89
Wisconsin	1,838	347	747		772	55	116	26	642
Wyoming	70	7	2	16	53	25	3	3	15

²Pulmonary.

#### Case Rates per 1,000 Population (Annual Basis) for the Month of December, 1925

State	Chick- en pox	Diph- theria	Measles	Mumps	Scarlet fever	Small- pox	Tuber- culosis	Ty- phoid fever	Whoop- ing cough
Alabama	0, 67	0. 56	0, 07	0.59	0.35	0.31	0. 64	0.33	0. 23
Arizona	. 52	. 32	. 09	1.50	1.42	.00	1. 85	. 43	0. 20
Arkansas	. 25	.17	.04	.07	. 29	.07	. 24	. 36	. 24
California	3, 55	1.60	.38	2.88	1.95	.81	2, 49	.17	. 86
Colorado	2, 30	1. 31	.35	.06	1.05	.05	2 06	. 29	1. 71
Connecticut	3, 17	1. 42	6.05	.28	2 12	.00	. 71	. 23	1. 72
Dolowora	. 95	1, 76	1.76		.85	. 00	. 40	.15	1. 25
Delaware District of Columbia	2, 55	2, 51	.64		2, 10	.00	1. 92	.12	1. 42
Florida	. 87	1. 21	. 24	. 66	. 43	.69	1.88	.54	. 38
Georgia	.28	. 36	.05	.20	.12	.08	. 33	. 23	. 30
Idaho		.33			1.08	.00	. 33	.02	• 11
Illinois	3, 10	.91	1.47	.39	2.97	. 23	3, 28	.50	1. 03
Indiana	5. 10	.88	1.21	.00	3, 53	0	3. 20	. 15	1.00
Iowa	1.20	.62	. 36	. 53	1. 01	. 42	. 06	(i)	
77-mana	3. 75	.62	. 55	.39	1, 51	.10	1.45	.19	. 23 1. 60
Kansas Kentucky ²	3.73	.02	1 .00	.00	1.01	. 10	1.45	. 10	1.00
Louisiana	. 31	.85	. 05	. 01	. 46	.76	3 1, 07	.42	
Louisiana		. 23	.20	1.55	1.90		3.30	.38	. 15 1. 31
Maine	1.00	20			1.73	.00			
Maryland Massachusetts	4.65	1.08	9.07	2.74	1.73	.00	1. 73	. 56	1.45
Massachuseus	3.16	1.11	15, 93	. 56	2.82	.00	1.35	.10	3.03
Michigan	2.89	1. 27	3.44	.14	3.93	. 21	1.22	. 29	1. 95
Minnesota	2, 89	1.43	. 14		5, 33	. 13	1. 21	.12	. 41
Mississippi		1.05	7.95	4.23	. 58	. 51	1.83	.91	4.40
Missouri	1.50	1.07	.17	.34	2.24	. 13	. 63	. 07	. 30 1. 17
Montana	2.49	.75	.22	7.08	2.73	. 49	. 95	.38	1.17
Nebraska	}	.41	ļ		1, 55			.09	
Nevada 4									
New Hampshire 4									
New Jersey New Mexico 5	5. 25	1. 51	6.37		2.64	.00	1.11	.15	. 66
New Mexico .									
New York	3.09	1, 12	7.75	. 54	1.59	.00	1.65	. 25	1.34
North Carolina	2, 17	1.09	.45		1. 22	. 19		.20	. 94
North Dakota	1.29	- 48	. 24	2.14	4.82	. 17	. 14	.12	1,37
Ohio	3.12	1.15	8.64	.12	2.83	.46	.97	.14	1.36
Oklahoma	. 49	. 83	.08	.08	.87	. 21	3.40	.78	.40
Oregon	1.68	2, 21	.33	1.82	2, 96	1, 29	1.20	.28	1.45
Oregon Pennsylvania	3.77	1, 12	5.55	. 58	2.49	.00	.66	, 19	1.25
Rhode Island	1.31	2, 15	25.50	.13	1.18	.00	.66	,11	. 98
South Carolina		1,91	.23	.13	.43	.38	.84	.69	. 91
South Dakota	1.54	.71	.18	3.18	6.47	. 19	.35	.11	.78
Tennessee 6	.61	.43	. 52	.03	.86	. 13	, 62	.47	.78
Texas 5	}		l		1				
Utah	16, 23	4.16	. 55	. 55	2, 63	. 93	3.24	.17	4.11
Vermont	8, 12	.60	1.50	.70	1.77	.00	3.63	.10	5.38
Virginia	3.03	1.56	2, 12		2.11	. 16	3.52	.30	2.02
Washington	4.24	.73	. 54	2, 06	3.06	2, 56	.80	. 14	1.39
West Virginia	1.46	.95	1.96		1.72	. 02	.30	.67	. 6.
Wisconsin	7.73	1.46	3, 14	2, 42	3, 25	. 23	.49	ii	2.70
Wyoming		.37	.11	. 85	2,81	1.33	.16	.16	. 80
	1	1	1		1	1	1	1	1

Report not required by law.
 Reports received weekly.
 Pulmonary.

⁵ Report not received at time of going to press.

⁶ Reports incomplete.

Reports received annually.
 Report not received at time of going to press.
 Reports incomplete.

Week ended February 13, 1926:

#### RECIPROCAL NOTIFICATIONS

Notifications regarding communicable diseases sent during the month of December, 1925, to other State health departments by departments of health of certain States

Referred by-	Diph- theria	Measles	Scarlet fever	Smallpox	Tracho- ma	Tuber- culosis	Typhoid fever	Whoop- ing cough
Illinois	2	1	1 1	7	i	90	5 5 1	1

#### PLAGUE-ERADICATIVE MEASURES IN THE UNITED STATES

The following items were taken from the reports of plague-eradicative measures from the cities named:

#### Los Angeles, Calif.

Number of rats trapped	2, 123
Number of rats found to be plague infected	0
Number of squirrels examined	621
Number of squirrels found to be plague infected.	0
Number of mice trapped	2, 974
Number of mice found to be plague infected.	. 0
Date of discovery of last plague-infected rodent, Nov. 6, 1925.	
Date of last human case, Jan. 15, 1925.	
Oakland, Calif.	
(Including other East Bay communities)	
Week ended February 13, 1926:	
Number of rats trapped	169
Number of rats found to be plague infected.	0
Totals:	

### GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Number of squirrels examined May 1 to Aug. 1, 1925..... Number of squirrels found to be plague infected..... 

Date of discovery of last plague-infected rat, Mar. 4, 1925.

Date of last human case, Sept. 10, 1919.

Number of rats found to be plague infected.

21

Diphtheria.—For the week ended February 13, 1926, 35 States reported 1,359 cases of diphtheria. For the week ended February 14, 1925, the same States reported 1,572 cases of this disease. Ninetyseven cities, situated in all parts of the country and having an aggregate population of more than 28,600,000, reported 735 cases of diph437 March 5, 1926

theria for the week ended February 13, 1926. Last year for the corresponding week they reported 868 cases. The estimated expectancy for these cities was 1,022 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-two States reported 13,421 cases of measles for the week ended February 13, 1926, and 3,004 cases of this disease for the week ended February 14, 1925. Ninety-seven cities reported 8,077 cases of measles for the week this year and 1,632 cases last year.

Poliomyelitis.—The health officers of 38 States reported 16 cases of poliomyelitis for the week ended February 13, 1926. The same States reported 18 cases for the week ended February 14, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-five States—this year, 3,955 cases; last year, 4,300 cases; 97 cities—this year, 1,620 cases; last year, 2,108 cases; estimated expectancy, 1,257 cases.

Smallpox.—For the week ended February 13, 1926, 35 States reported 1,088 cases of smallpox. Last year for the corresponding week they reported 1,079 cases. Ninety-seven cities reported smallpox for the week as follows: 1926, 310 cases; 1925. 434 cases; estimated expectancy, 129 cases. Twenty-four deaths from smallpox were reported by these cities for the week this year—22 at Los Angeles, Calif., and 2 at San Francisco, Calif.

Typhoid fever.—One hundred and forty-five cases of typhoid fever were reported for the week ended February 13, 1926, by 34 States. For the corresponding week of 1925, the same States reported 223 cases of this disease. Ninety-seven cities reported 36 cases of typhoid fever for the week this year and 63 cases for the corresponding week last year. The estimated expectancy for these cities was 48 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 90 cities, with a population of more than 27,900,000, as follows: 1926, 1,273 deaths; 1925, 1,327.

March 5, 1926 438

#### City reports for week ended February 13, 1926

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the pieceeding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are evalued and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy,

		GL: L	Dipht	heria	Influ	ienza	25		***
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expec- tancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine: Portland	75, 333	2	2			0	8	١.	١.
New Hampshire: Concord	, ,	0	1	0	1	0	-	3	1
Vermont:	22, 546	U	1	2	0	0	31	0	1
Barre Burlington	10, 008 24, 089	ō	0	ō	ō	0			i
Massachusetts: Boston	779, 620	75	65	18	3	3	147	21	29
Fall River Springfield	128, 993 142, 065	20	6	5 0	0	. 0	34 105	0	1 0
Worcester Rhode Island:	190, 757	5	5	16	0	0	46	1	5
Pawtucket Providence	69, 760 267, 918	0	12	0 4	0	0	77 365	1 0	4 2
Connecticut: Bridgeport	(1) 160, 197 178, 097	4	9	5	2	3	36	0	8
Hartford New Haven	160, 197 178, 927	12 22	8 4	0	0	0	109 35	0 2	8 7 4
MIDDLE ATLANTIC	ĺ								
New York:	F00.010				_				
Buffalo New York	538, 016 5, 873, 356	19 269	17 219	157	0 71	20	2, 060	32	23 256
Rochester Syracuse New Jersey:	316, 786 182, 003	1 <del>9</del> 56	8 7	14 3	0	0	81 28	27	12
Camden. Newark	128, 642	11	4	4	1	1	21	0	5
Trenton	452, 513 132, 020	92 8	20 5	8	3 9	0	388	5 0	15 5
Philadelphia	1, 979, 364	217	80	75	3	8	413	17	72
Pittsburgh Reading	631, 563 112, 707	13	21 4	3	ō	ō	4		4
EAST NORTH CENTRAL									
Ohio:	409, 333	14	9						
Cincinnati Cleveland Columbus	936, 485 279, 836		32 3	6	2	2	3	0	10
Toledo Indiana:	287, 380	15 32	7	1 4	0	0	118 28	0	6 4
Fort Wayne Indianapolis	97, 846 358, 819 80, 091	6	4	1	0	0	1	o	2
South Bend Terre Haute	80, 091	20 7	10 1	2 4	0	0	845 1	3 0	10 2
Illinois: Chicago	71, 071 2, 995, 239	120	110	1	0	0	0	0	4
Peoria Springfield	2, 995, 259 81, 564 63, 923	138 5	110 1 2	65 0	15 0	0	99 8	6 14	97 3
Michigan: Detroit	1, 245, 824	5 82		1	1	1	2	2	3
Flint Grand Rapids	130, 316 153, 698	26 9	61 7 3	41 0 5	2 0 0	1 0 0	1, 253	11	42 4 7
No estimate made.				0 1	U	U	13	0	7

### City reports for week ended February 13, 1926-Continued

				,				
	<b>01.1.1</b>	Dipht	heria	Influ	enza	35		D
Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expec- tancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
46, 385 509, 192 67, 707 39, 671	107 11 0	$\begin{array}{c} 1\\17\\2\\1\end{array}$	22 4 0	2 0 0	2 0 0	14 0 1	15 2 0	12 3 0
110, 502 425, 435 246, 001	5 77 37	2 20 15	0 16 6	0 0 0	0 0 0	2 49 4	1 4 4	5 3 6
(1) (1) (1) 36, 771	1 0 5 10	1 4 2 0	3 2 1 0	0 0 0		0 3 0 11	0 0 1 3	
367, 481 78, 342 821, 543	48 2 44	9 2 48	2 1 57	3 0 0	0	13 <b>4</b> 0 25	6 0 10	9 2
26, 403 14, 811	1	0	0	0	0	18 1	15	0
15,036	1	0	0	0		0	89	
60, 941 211, 768	3 6	2 5	3	0	0	9	1 0	0 5
55, 411 88, 367	12 12	2 3	0 1	0	0	8 13	1 1	2 5
							}	
122, 049	13	2	7	0	0	188	0	4
796, 296	78	30	17	588	20	1.143	143	83
33, 741 12, 035	0	0	0	0	0	1 4	0	0 2
497, 906	53	16	32	12	3	68	0	31
30,395	19	1	2	0	0		1 2	0 3
186, 403 58, 208	5 1	4	1		5 0	9	2	32 6
49, 019 63, 485	0	1	0	) 0	0	10	0	2 2 2
i	1	1			}	i	1	1
69,031	10	. ŏ	1	0	0	1 0	1	8
73, 125 41, 225 27, 311	1 1 3	0	1	. 0			) C	
16, 809	8 15	0		0	0	1	) (	0
26, 847		_ 0				,		2 5
	July 1, 1925, estimated  46, 385, 509, 192, 67, 707, 39, 671  110, 502, 425, 435, 246, 001  (1) (1) (3) (36, 771, 367, 481, 78, 342, 26, 403, 14, 811  15, 036, 30, 127  60, 941, 211, 768  55, 411, 88, 367  122, 049  796, 296, 38, 741, 12, 035  49, 019  60, 481, 640, 30, 305, 56, 208  49, 019  61, 485, 603, 58, 208  49, 019  63, 485, 556, 208  49, 019  66, 411, 225, 241, 225, 27, 311  (1) (1) (1) (2) (3) (3) (4) (4) (4) (5) (6) (6) (7) (7) (7) (8) (8) (9) (8) (8) (9) (9) (1) (1) (1) (1) (2) (1) (2) (3) (4) (4) (4) (4) (4) (5) (6) (6) (7) (7) (7) (8) (8) (9) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	July 1, 1925, estimated re- ported re-  46, 385 509, 192 67, 707 11 39, 671 0  110, 502 425, 435 246, 001 37, 601 10, 502 425, 435 11, 768 11, 768 12, 636 130, 127 12, 636 130, 127 12, 636 131 14, 811 15, 636 130, 127 12, 646 13, 647 12, 647 12, 647 12, 647 12, 647 12, 647 12, 647 12, 647 12, 647 12, 647 12, 647 12, 647 12, 647 12, 647 12, 647 12, 647 12, 647 12, 647 12, 647 12, 647 12, 647 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reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cases, reported cas	A6, 385   Cases, cases, cases, restimated   Ported   Cases mated expectancy   Cases, restimated   Ported   Cases mated expectancy   Cases, restimated   Ported   Cases mated expectancy   Cases, restimated   Ported   Cases mated expectancy   Cases, restimated   Cases mated expectancy   Cases, restimated   Cases mated   Cases   Cases, mated expectancy   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cas	Population July 1, 1925, estimated   Cases, cases, cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expectancy   Cases mated expect	Population July 1, 1925, estimated stimated ported   Cases, restimated ported   Cases mated expectancy   Population ported   Cases mated expectancy   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population ported   Population por	Population   Chicken   Dox, cases   re- with mated   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   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Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported   Ported

¹ No estimate made.

City reports for week ended February 13, 1926—Continued

			Dipht	heria	lnfl	uer	ıza	3.5		Pneu-
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expec- tancy	Cases re- ported	Cases re- ported		Deaths re- ported	Measles, cases re- ported	Mumps, cases re- ported	monia, deaths re- ported
EAST SOUTH CENTRAL										
Kentucky: Covington Louisville	58, 309 305, 935	0 5	2 7	0			0	0 22	0	2 12
Tennessee: Memphis	174, 533 136, 220	15	4	5 0			6 2	1 114	1 0	15 4
Nashville Alabama: Birmingham	205, 670	26	3 0	0	64		2	4	0	8 2 0
Mobile Montgomery	65,955 46,481	3 3	i	2 2		4	Ö	ŏ	15	ő
WEST SOUTH CENTRAL Arkansas:										
Fort Smith Little Rock	31, 643 74, 216	1 0	1	3		0 6	ō	0		3
Louisiana: New Orleans Shreveport		15	13 0			9	45 1	0		58 5
Oklahoma: Oklahoma City Texas:	1	0	1	1		9	3	1	ł	0
Dallas Galveston Houston San Antonio	_ 164, 954		2		3	7000	9 0 2 7		0	
MOUNTAIN										1
Montana: BillingsGreat FallsHelenaMissoula	12,037	3   8	)		0	0000	0 1 0 0		5 6 0 8 0 0	
Idaho: Boise Colorado:	23, 045	2 4			0	0	c		0 (	
Denver Pueblo New Mexico:	280, 91: 43, 78				0	0	13 C		0 0	
Albuquerque Arizona:	1				1	53	3	1	0 0	
Phoenix Utah: Salt Lake City	į	Ì	1		5	0	2	1	0 C 3 · 19	1
Nevada: Reno	12, 66	1		1	0	0	C	1	0 0	0
PACIFIC										
Washington: Seattle Spokane Tecoma	108, 89 104, 45	7 1	9	7 4 2	1 3 4	0			5 116 0 6 3 3	4
Oregon: Portland California:	282, 38	1		7	1	10	(	- 1		j
Los Angeles Sacramento San Francisco	72, 26 557, 53	0 14	3	2	1 1 9	45 2 7	1 2		8 11 1 2 5 14	3

¹ No estimate made.

### City reports for week ended February 13, 1926-Continued

	Scarle	fever		Smallpo	x		Ту	phoid fe	ever		
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases 10- ported	Deaths re- ported	Tuber- culo- sis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Whooping cough, cases reported	Deaths, all causes
NEW ENGLAND		***************************************									
Maine: Portland New Hampshire: Concord	3	11 0	0	0	0	1	1	0	0	7	24 9
Vermont: Barre Burlington	0 1	10	0			<u>i</u> -	0			0	5
Massachusetts: Boston Fall River	60 3	91 0	0	0	0	8 3	1 1	1 0	0	149	214
Springfield Worcester Rhode Island:	9 10	4 10	ő	ŏ	ŏ	2 2	0	0	0	11	30 47
Pawtucket Providence Connecticut:	1 9	0 5	0	0	0	0 3	0	0	0	8 7	23 73
Bridgeport Hartford New Haven	8 6 8	17 5 10	0	0	0	1 1 2	0	0 1 0	0	6 4 5	42 23 52
MIDDLE ATLANTIC										1	
New York: Buffalo New York Rochester Syracuse	20 246 14 18	29 149 15 5	0 0	2 0 0 0	0 0	1 113 3 0	1 8 0 0	2 2 1 0	0 0 0	34 50 10 77	145 1, 599 62 46
New Jersey: Camden Newark Trenton	3 24 5	8 24 3	0 0	0 0	0 0	2 6 2	0	0 1 0	0 0	0 15 0	32 113 46
Pennsylvania: Philadelphia Pittsburgh	74 31	95	0	0	0	31	3 0	4	1	28	564
Reading EAST NORTH CENTRAL		15	0	0	0	1	0	1	0	9	33
Ohio: Cincinnati	12	36	1	0	0	12	0	2	0	45	151
Columbus Toledo	31 10 20	13 4	1 3	i	0	8 0	1 0 1	0	1 0	17	78 82
Indiana: Fort Wayne Indianapolis South Bend Terre Haute	4 9 3 2	7 16 9 4	0 6 1 1	0 28 3 0	0 0 0	4 4 0 1	0 1 0 0	0 0 0	0	50 3 2	1 9
Illinois: Chicago Peoria Springfield	146 5 1	166 11 2	3 0 0	1 2 0	0	39 1 0	3 0 0	3 0 0	0	12	40
Michigan: Detroit Flint Grand Rapids.	93 8 9	138 4 31	4 2 0	0 0 1	0000	19 1 1	1 0 1	0 1 0	0	22	. 19
Wisconsin: Madison Milwaukee Racine Superior	3 37 5 2	26 2 6	0 3 2 4	0 0	0 0	8 0 0	0 1 0 0	0 0	0000	32	118 10 8
WEST NORTH CENTRAL											a approve the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the stat
Minnesota: Duluth Minneapolis St. Paul	39 28	3 5 76 61	2 15 6	000		5	1	1 0			85

¹ Pulmonary tuberculosis only.

City reports for week ended February 13, 1926-Continued

			···								
	Scarlet	fever		Smallpo	x	Tuber-	Ту	phoid fo	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST NORTH CENTRAL—COD.											
Iowa: Davenport Des Moines Sioux City Waterloo Missouri;	2 8 2 2	6 3 2 2	2 2 1 0	0 2 4 0			0 0 0	0 0 0 0		0 0 0 2	
Kansas City St. Joseph St. Louis	12 3 36	33 7 145	2 0 4	0 0 2	0 0 0	6 0 8	1 1 1	0 0 1	0 0 1	14 0 12	100 20 226
North Dakota: Fargo Grand Forks South Dakota:	2	4 0	0	0	0	0	0	0	0	0 2	7
Aberdeen Sioux Falls Nebraska:	3	0	0	0			0	0		0	
Lincoln Omaha Kansas:	3 5	17	0 7	10	0	5	0	0	0	5 4	14 48
Topeka	1 4	5	0	0	0	0	0	0	0	5 2	9 27
SOUTH ATLANTIC	1										
Delaware: Wilmington Maryland:	. 3	1	0	0	0	4	0	0	0	5	27
Baltimore Cumberland Frederick District of Colum-	46 1 1	31 0 0	0	0	0	21 3 0	0 0	3 0 0	0 0	37 2 0	377 10 . 4
bia: Washington Virginia:	23	29	2	0	0	15	1	0	0	20	166
Norfolk Richmond Roanoke	0 1 4 1	0 17 3 0	0 1 0 0	1 0 2 0	0000	1 1 6 0	0 1 1 0	0 0 0	0 0 0 1	9 4 0 0	100 22
West Virginia: Charleston Huntington Wheeling North Carolina:	1 1 1	1 0 3	1 1 0	0	0	1 0 0	0 0 1	0 0 5	0 0 1	4 0 1	20 13 16
Raleigh Wilmington Winston-Salem South Carolina:	0 0 1	2 0 1	0 0 1	0 3	0	2 0 2	0 0	0 0	0 0	0	11 16 24
Charleston	0 0	0 0	0 1 0	0 1 0	000	1 0 0	0 0	0 0 0	0	0 0 4	28
Atlanta	0 0	1 0 1	2 0 0	8 0 0	0	5 0 3	0 0 1	0 0 0	0 0	6 0 0	103 0 31
St. Petersburg Tampa	1 0	<u>i</u>	0	28	0	2	0		0	<del></del>	20 44
EAST SOUTH CENTRAL											
Kentucky: Covington Louisville Tennessee:	1 5	0	1 1	0	0	2 3	0	0	0	0 3	21 76
Memphis Nashville Alabama:	3 4	14 4	3 1	2 0	0	4 0	1 0	0	0	4 0	71 37
Birmingham Mobile Montgomery	2 1 0	3 0 0	5 1 0	8 0 0	0	5 0	0 0	0 0	0	4 0 0	69 19

City reports for week ended February 13, 1926—Continued

	Scarle	t fever	1	Smallpo	X.	Tuber-		phoid fo	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases 1e-	mated	Cases re- ported	Deaths re: ported	culo- sis, deaths	Cases, esti- mated	Cases re-	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST SOUTH CEN-											
Arkansas: Fort Smith Little Rock Louisiana:	0	1 5	0	0	0	<u>i</u>	0	0	0	2	
New Orleans Shreveport Oklahoma.	5 1	10 3	2 3	0 2	0	18 0	2 1	0	0	0	290 36
Oklahoma City Texas:	2	4	4	0	0	0	0	0	0	0	29
Dallas Galveston Houston San Antonio	2 0 1 1	5 1 0 0	2 1 1 0	15 7 0	0 0 0	7 0 0 4	1 0 0 1	0 0 0	0 0 0	26 0 1 0	60 16 71 85
* MOUNTAIN											
Montana. BillingsGreat Falls. Helena. Missoula	1 2 0 1	0 2 3 2	0 2 0 1	0 1 0 0	0 0 0	0 0 0	0 0	0 0 0	0 0 0	2 10 0 2	10 10 11 3
Idaho: Boise Colorado:	1	0	1	6	0	0	0	Đ	0	4	3
Denver Pueblo	13 1	11 2	3 0	0	0	12 3	1 0	0	0	51 0	105 13
New Mexico.	1	4	0	0	0	6	0	0	0	1	22
Arizona Phoenix Utah:	1	0	0	0	0	6	0	0	0	0	17
Salt Lake City Nevada:	3	4	3	0	0	4	0	0	0	27	65
Reno	1	0	0	1	0	0	0	0	0	0	2
PACIFIC											
Washington: Seattle Spokane Tacoma	10 3 2	37 23 1	3 6 3	15 0 25	0	1	0	1 0 0	0	5 1 0	24
Oregon: Portland California:	6	21	11	7	0	3	0	0	0	4	86
Los Angeles Sacramento San Francisco	20 2 16	39 4 11	4 1 4	122 8 1	22 0 2	21 1 16	2 1 0	3 0 1	000	9 0 1	245 160

City reports for week ended February 13, 1926-Continued

	Cereb men	rospinal ingitis		hargie phalitis	Pel	lagra		iomyel ile par	itis alysis)
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
NEW ENGLAND								٠ ~	
Maine: Portland Massachusetts:	0	0	1	1	0	0	0	0	0
Boston	0	0	1	0	1	0	0	0	0
MIDDLE ATLANTIC	175								
New York: Buffalo New York Pennsylvania:	0	1 1	0	0 5	0	0	0	0	0
Philadelphia	0	0	4	2	0	0	0	0	1
EAST NOTRH CENTRAL									
Illinois: Chicago	1	1	0	0	0	0	0	1	0
Michigan: Detroit Grand Rapids	2	0	0	0	0	0	0	1 0	0
Wisconsin Racine		0	0	0	0	0		0	0
WEST NORTH CENTRAL									
Missouri: St. Louis	1	0	0	0	0	0	1	0	0
SOUTH ATLANTIC Georgia: Atlanta	0	0	0	0	0	1	0	0	0
EAST SOUTH CENTRAL Alabama:									
Birmingham	0	0	0	0	3	1	0	0	0
WEST SOUTH CENTRAL			1	<u> </u>					
Louislana: New Orleans Shreveport Texas:	0	0	0	0	1 0	1	0	0	0
DallasSan Antonio	0	0	0	0	1 0	1 0	0	0	0
MOUNTAIN Colorado: Denver	0	0	0	1	0	0	o	0	0
Washington: Spokane	5	0	0	0	0	0	6	0	0
California: Los Angeles	4	2	0	0	0	0	0.	1	0

The following table gives the rates per 100,000 population for 103 cities for the five-week period ended February 13, 1926, compared with those for a like period ended February 14, 1925. The population figures used in computing the rates are approximate estimates as of July 1, 1925, and 1926, respectively, authoritative figures for many of the cities not being available. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths

had more than 29,250,000 estimated population in 1925 and more than 29,750,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

rates per 100,000 population—Compared with rates for the corresponding period of 1925 1 Summary of weekly reports from cities, January 10 to February 13, 1936-Annual

		Week ended—										
	Jan. 17, 1925	Jan. 1 <b>6, 192</b> 6	Jan. 24, 1925	Jan. 23, 1926	Jan. 31, 1925	Jan. 30, 1926	Feb.	Feb. 6, 1926	Feb. 14, 1925	Feb. 13, 1926		
103 cities	167	145	159	142	2 160	142	3 169	4 134	3 163	- 5 134		
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	173 187 132 247 115 84 185 148	144 151 135 253 141 67 120 127	165 174 121 193 144 74 154 231 213	132 137 131 206 152 73 155 155	192 155 2126 243 121 89 141 129 279	118 130 138 245 116 42 142 264 167	185 170 136 247 3 145 58 167 185 257	97 129 119 • 4220 133 42 138 127 189	237 164 124 251 173 63 154 92 171	\$ 123 \$ 145 \$ 120 \$ 170 135 47 116 173 140		

#### MEASLES CASE RATES

	,	<del></del>	<del></del>			,	,	<del></del>	<del>,</del>	
103 cities	188	973	204	1,335	2 204	1,383	3 242	41,482	³ 285	5 1, 543
New England Middle Atlantic. East North Central. West North Central. South Atlantic. East South Central. West South Central. Mountain	424 157 327 12 42 42 22 259	2,867 845 1,302 127 1,356 239 17 91	479 186 352 26 36 68 13 240 52	2,572 1,088 2,068 156 2,477 285 13 118	467 205 2 340 20 33 84 13 277	2,751 1,185 2,088 277 2,280 394 26 100	556 204 415 16 3 46 47 35 758 58	2,408 1,347 2,152 4406 2,579 711 31 91	637 286 479 28 3 92 68 48 148 28	6 2, 358 7 1, 596 8 1, 855 4 549 3, 112 732 13 109
Pacific	152	51	52	65	17	73	58	105	28	167

#### SCARLET FEVER CASE RATES

103 cities	344	285	356	292	2 346	287	3 397	4 298	3 335	5 294
New England	542	381	575	300	515	378	592	402	544	#363
Middle Atlantic	292	237	325	237	299	235	372	209	406	7182
East North Central	350	321	344	324	2 366	300	398	338	371	£361
West North Central	731	548	780	669	756	661	844	4 749	695	1777
South Atlantic	246	186	190	186	175	154	3 241	163	5 261	171
East South Central	168	140	168	202	200	109	89	119	194	114
West South Central	110	90	185	69	194	69	154	138	114	108
Mountain	518	319	296	373	250	255	324	155	370	218
Pacific	174	270	210	256	215	331	246	326	168	310
							1		li	1

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1925 and 1926, respectively.
² Racine, Wis., not included.
² Wilmington, Del., not included.
² Sioux Falls, S. Dak., not included.
² Sioux Falls, S. Dak., not included.
² Barre, Vt., Pittsburgh, Pa., Cleveland, Ohio, Madison, Wis., and Sioux Falls, S. Dak., not included.
² Pittsburgh, Pa., not included.
² Cleveland, Ohio, and Madison, Wis., not included.

Summary of weekly reports from cities, January 10 to February 13, 1926—Annual rates per 160,000 population—Compared with rates for the corresponding period of 1925—Continued

#### SMALLPOX CASE RATES

					Week o	nded-				
	Jan. 17, 1925	Jan. 16, 1926	Jan. 24, 1925	Jan. 23, 1926	Jan. 31, 1925		Feb. 7, 1925	Feb. 6, 1926	Feb. 14, 1923	Feb. 13, 192
103 cities.	56	47	68	35	2 €5	40	373	4 47	3 76	15
New England	0	0	0	0	0	0	0	0	0	8
Middle Atlantic East North Central Vest North Central	. 10	. 2	6	_0	9	1	2	0	4	7
East North Central	37	37	45	33	2 33	43	36	16	33	82
West North Central	187	51 68	175	36 56	189 42	53 58	141 3 58	4 54 101	187 3 92	1
South Atlantic East South Central	58 200	57	35 €20	47		21	756	42	620	
West South Central	31	146	31	99	57	125	119	155	132	1
Mountain.		18		27 1		18	28	73	157	
Pacific	202	256	199	194	168	205	254	324	210	40
					1		<u> </u>		]	<u> </u>
•	TY	PHOII	) FEV	ER CA	SE RA	TES				
103 cities	20	11	17	13	2 17	, 8	3 13	47	312	
New England	24	2	19	9	7	9	29	14	19	e
New England Middle Atlantic East North Central West North Central	21	16		10	19	9	13	3	6	
East North Central.	22	8	10	3	210	4	8	3	6	1
West North Central	1 10	4	1 6	, 4	12	2	0	46	10	l
South Atlantic	19	8	12	8	35	2 9	16	13	5 20	
East South Central	, 16	16	26	5	21	10	11	21	37	ł
South Atlantic East South Central West South Central	66	13	40	151	57	17	22	4	44	1
					,	1 1	شبد ا		1 44	1
wountain	' '	9	46	0	18	19	28	36	18	١.
Mountain Pacifie	' '	13			18 3	19	28 17	36 16	18 11	]
wountain	6		46 14	10	18	19	28	36	18	:
wountain	. 6 . 1	13	46 14	10	18	19	28	36	18	5
96 cities	1 21	NFLU 23	46 14 ENZA	0 16 DEATH	18 3 4 RAT	19 11 ES	28 17	36 16	3 27	5
96 cities	1 21	13 NFLU 23	46 14 ENZA	0 16 DEATI	18 3 4 RAT 22 26	19 11 ES 29	28 17 3 29 46	36 16 4 35	18 11 3 27 26	5
96 cities	1 21	NFLU 23	46 14 ENZA	0 16 DEATI 20 7 14	18 3 4 RAT 222 26 16	19 11 ES 29	3 29	36 16	3 27	5 6 7
96 cities	21 26 18 14 27	23 14 16 11 19	21 10 20 17 19	0 16 DEATI 20 7 14 3 10	18 3 4 RAT 22 26	19 11 ES 29 17 18 12 13	3 29 46 24 12 19	36 16 4 35 12 20	3 27 26 22 16	5 6 7 8
96 cities	21 26 18 14 27	23 14 16 11 19	21 10 20 17 19	20 7 14 3 10 30	18 3 4 RAT 222 26 16 211 15 36	29 17 18 12 13 36	3 29 46 24 12 19	36 16 4 35 12 20 12 4 19 68	3 27 26 22 16 11 252	5 6 7 8
96 cities	21 26 18 14 27	23 NFLU 23 14 16 11 19 23 88	21 10 20 17 19	0 16 DEATH 20 7 14 3 10 20 57	18 3 3 4 RAT 222 26 16 16 15 15 36 68	ES 29 17 18 12 13 36 73	28 17 3 29 46 24 12 19 14 63	36   16   4 35   12   20   12   19   68   104	18 11 26 22 16 11 11 1552 58	5 6 7 8
96 cities	21 26 18 14 2 42 42 42 52	23 NFLU 24 14 16 11 19 23 88 80	ENZA : 21 10 20 17 19 21 58 57	0 16 DEATI 20 7 14 3 10 30 57 94	18 3 4 RAT 222 26 16 16 15 36 88 77	ES 29 17 18 12 13 36 75 151	3 29 46 24 12 19 144 63 92	36   16   4 35   12   20   12   4 19   68   104   180	3 27 26 22 16 11 58 116	5 6 7 8
96 cities	21 26 18 18 18 42 42 42 42 25	23 14 16 16 11 19 23 88 88 64	46 14   21   10   20   17   19   21   58   59   9	0 16 DEATH 20 7 14 3 10 39 57 98	18 3 4 RAT  2 22  26 16 211 15 36 68 77 37	ES 29 17 18 12 13 36 75 151	3 29 40 24 12 19 44 63 92 55	36 16 16 12 20 12 419 68 104 180 109 109	3 27 20 22 21 11 552 58 116 55	5 6 7 8
96 cities	21 26 18 14 2 42 42 42 52	23 NFLU 24 14 16 11 19 23 88 80	ENZA : 21 10 20 17 19 21 58 57	0 16 DEATI 20 7 14 3 10 30 57 94	18 3 4 RAT 222 26 16 16 15 36 88 77	ES 29 17 18 12 13 36 73	3 29 46 24 12 19 144 63 92	36   16   4 35   12   20   12   4 19   68   104   180	3 27 26 22 16 11 58 116	5 6 7 8
96 cities	21 26 18 14 2 42 42 42 42 25 11	23 14 16 16 11 19 23 88 88 64	46 14 ENZA  21 10 20 17 19 21 58 87 9 11	0 16 DEATH 20 7 14 3 10 20 57 94 18 39	18 3 H RAT  2 22 26 16 11 15 36 68 737 18	ES 29 17 18 12 12 13 36 73 151 73 78	3 29 40 24 12 19 44 63 92 55	36 16 16 12 20 12 419 68 104 180 109 109	3 27 20 22 21 11 552 58 116 55	5 6 7 8
96 cities	21 26 18 14 2 42 42 42 42 25 11	23 NFLU 14 16 11 19 23 88 50 64 46	46 14 ENZA  21 10 20 17 19 21 58 87 9 11	0 16 DEATH 20 7 14 3 10 20 57 94 18 39	18 3 H RAT	ES 29 17 18 12 12 13 36 73 151 73 78	3 29 40 24 12 19 44 63 92 55	36 16 16 12 20 12 419 68 104 180 109 109	3 27 20 22 21 11 552 58 116 55	8 31
96 cities	21 26 18 14 2 42 42 42 25 11 P	23 14 16 11 19 23 88 50 64 46 211	46 14  ENZA : 21  10 20 20 17 19 21   58 57 9 11   10 ONIA	0 16 DEATH 20 7 14 3 10 20 57 4 18 39 DEAT.	18 3 4 RAT  2 22 26 26 16 68 73 18  H RAT	19 11 29 17 18 18 12 13 36 73 151 73 78 ES	28 17 40 24 12 19 44 63 92 55 36	36 16 4 35 12 20 12 4 19 68 104 180 109 67	3 27 20 22 20 16 15 58 116 55 4	8 3 1
96 cities	21 26 18 14 2 42 42 42 25 11 P	23   14   16   19   23   850   64   64   64   64   64   64   64   6	46 14  ENZA  21  10  20  17  17  21  587  91  11  CONIA	20 7 14 3 10 29 57 94 18 39 DEAT	18 3  4 RAT  2 22  26 16 211 36 68 77 37 18  4 RAT	29 17 18 12 13 36 36 73 78 ES	28 17 3 29 46 24 12 19 463 92 55 36	36 16 14 35 12 20 12 419 68 104 180 109 67	3 27 26 22 16 11 55 55 4 3 212 230	5 6 7 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
96 cities	21 26 18 14 2 42 42 42 25 11 P	23 14 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	466 14 ENZA  21 10 20 177 19 21 58 58 9 11 CONIA	0 16 DEATH 20 7 14 3 10 0 29 57 94 18 39 DEAT 199 210 227	18 3 4 RAT 2 22 26 16 16 16 16 16 16 16 16 16 16 16 16 16	19 11 15 15 15 15 15 15 15 15 15 15 15 15	28 17 40 24 12 19 44 63 92 55 36	36 16 16 12 20 12 419 68 104 180 199 67	3 27 26 22 16 11 52 58 116 155 4	5 6 7 8 8 1
96 cities	21 26 18 14 2 42 42 42 25 11 P	23 14 16 11 19 28 88 60 46 46 NEUM	## 46 14   21   20   20   21   21   21   21   21	0 16 DEATH 20 7, 14 3, 10 29 57, 94 18 39 DEAT. 199 210 227	18 3  I RAT  2 22  266 166 211 15 366 688 777 37 37 18  H RAT  2 198 2 229 2 229 2 229	29 17 13 12 12 13 36 73 78 151 73 154 173 144 217 136	28 17 3 29 46 24 12 19 44 63 92 55 55 36 3214 204 252 152	36 16 1 4 35 12 20 12 4 19 68 109 67 4 206 201 213 145	\$ 277 20 22 10 11 52 58 116 55 4 \$ 212 230 230 158	6 7 8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
96 cities	1 21 26 18 14 42 42 42 42 42 11 25 11 11 206 151 259 143 104	23	466 14  ENZA  100 200 199 110 38 57 99 111  CONIA  202 208 288 182 117	0 16 DEATH 20 7 14 3 10 20 7 94 18 39 DEAT 199 210 227 139 81	18 3 H RAT  2 22 26 16 16 711 15 36 68 777 18  H RAT  2 198 2 229 2 136 114	29 17 18 12 13 3 36 6 73 151 78 ES	28 17 40 24 12 19 44 63 92 55 36 32 14 204 252 152 152	36 16 14 35 12 20 12 419 68 104 180 109 67	\$ 27 26 22 26 16 11 45 55 55 4 \$ 212 230 230 158 138	8 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
96 cities	21 22 26 14 42 42 42 25 11 PP 200 151 259 143 104 271	23 NFLU  23 14 16 11 19 23 88 64 46  NEUM  211 208 236 236 236 237 208 237 208 237 208 237 208 237 208 237 208 237 208 237 208	46 14  ENZA  21  10  20  17  17  18  57  9  11  CONIA  202  208  233  132  137  242	0 16 DEATH 20 7 14 3 10 20 57 57 94 18 39 DEAT 199 210 227 127 128 1 287	18 3  4 RAT  2 22  266 16 211 15 36 688 777 18  4 RAT  2 198 2 299 2 186 114 2 388	19 11 11 12 13 13 15 11 78 12 13 15 11 78 12 13 15 11 78 12 13 15 11 14 12 13 15 10 10 10 10 10 10 10 10 10 10 10 10 10	28 17 3 29 46 24 119 44 63 92 55 55 36 3214 204 221 152 162 163 163 163 163 163 163 163 163 163 163	36 16 12 20 12 4 35 104 180 104 180 109 67	\$ 277 26 22 16 11 552 58 116 55 4 230 230 158 133 247	5   6   7   8   3   1   1   1   1   1   1   1   1   1
96 cities	21 22 26 14 42 42 42 25 11 PP 200 151 259 143 104 271	23 NFLU  23 14 16 11 19 23 88 80 64 46  NEUM  211 208 236 125 276 285	466 14  ENZA  100 200 199 219 38 57 9 11  CONIA  202 204 283 1317 244 294 294	0 16 DEATH 20 7 14 3 10 20 57 57 94 18 39 DEAT 199 210 227 127 128 1 287	18 3  H RAT  2 22  26 16 15 36 68 777 18  H RAT  2 198 2 229 2 186 1 186 2 188 2 288 2 78	29 17 18 12 13 36 66 73 151 78 121 193 144 217 136 106 284 208	28 17 40 24 12 19 44 63 92 55 36 204 2252 152 152 152 152 152 152 295 299	36 16 14 35 12 20 12 20 12 419 67 104 1109 67	3 27 26 22 16 11 58 110 55 4 3 212 230 158 158 158 158 158 158 158 158	6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
96 cities	21 22 26 14 42 42 42 25 11 PP 200 151 259 143 104 271	23 NFLU  23 14 16 11 19 23 88 64 46  NEUM  211 208 236 236 236 237 208 237 208 237 208 237 208 237 208 237 208 237 208 237 208	46 14  ENZA  21  10  20  17  17  18  57  9  11  CONIA  202  208  233  132  137  242	0 16 DEATH 20 7 14 3 10 20 7 94 18 39 DEAT 199 210 227 139 81	18 3  4 RAT  2 22  266 16 211 15 36 688 777 18  4 RAT  2 198 2 299 2 186 114 2 388	19 11 11 12 13 13 15 11 78 12 13 15 11 78 12 13 15 11 78 12 13 15 11 14 12 13 15 10 10 10 10 10 10 10 10 10 10 10 10 10	28 17 3 29 46 24 119 44 63 92 55 55 36 3214 204 221 152 162 163 163 163 163 163 163 163 163 163 163	36 16 12 20 12 4 35 104 180 104 180 109 67	\$ 277 26 22 16 11 552 58 116 55 4 230 230 158 133 247	5 6 7 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

² Racme, Wis., not included.
³ Wilmington, Del., not included.
⁴ Sioux Falls, S. Dak., not included.
⁴ Sioux Falls, S. Dak., not included.
⁵ Barre, Vt., Pittsburgh, Pa., Cleveland, Ohio, Madison, Wis., and Sioux Falls, S. Dak., not included,
⁶ Barre, Vt., not included.
⁶ Tittsburgh, Pa., not included.
⁶ Cleveland, Ohio, and Madison, Wis., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively

Group of cities	Number of cities reporting	per Number of cities reporting cases		population reporting	Aggregate population of cities reporting deaths		
- Neg		deaths	1925	1923	1925	1926	
Total	103	96	29, 944, 996	30, 473, 129	29, 251, 658	29, 764, 201	
New England Middle Atlantic East North Central West North Central South Atlantic East South Central: West South Central: Mountain Pacific	12 10 16 14 21 7 8 9	12 10 16 11 21 7 6 9 4	2,176,124 10,346,970 7,481,656 2,594,962 2,716,070 993,103 1,184,057 563,912 1,888,142	2, 206, 124 10, 476, 970 7, 655, 436 2, 634, 662 2, 776, 070 1, 004, 953 1, 212, 057 572, 773 1, 934, 084	2, 176, 124 10, 346, 970 7, 481, 656 2, 461, 380 2, 716, 070 993, 103 1, 078, 198 563, 912 1, 434, 245	2, 208, 124 10, 476, 970 7, 655, 436 2, 499, 036 2, 776, 070 1, 004, 953 1, 108, 695 572, 773 1, 460, 144	

### FOREIGN AND INSULAR

#### THE FAR EAST

Report for week ended January 30, 1926.—The following report for the week ended January 30, 1926, was transmitted by the Far Eastern Bureau of the health section of the League of Nations' Secretariat, located at Singapore, to the headquarters at Geneva:

	Pla	gue	Cho	lera	Sma	llpox
Port	Cases	Deaths	Cases	Deaths	Cases	Deaths
Calcutta		0		29		40
Bombay		l ŏ		-õ	13	7
Madras		l ŏ		2	4	i
Rangoon		ž		ĩ	6	Ō
Karachi		ō		Ö	6	ä
Negapatam		ĺ		5	Ŏ	3 0 0 2 1
Colombo	0	Õ	0	Õ	1	ŏ
Basra	Ō	Ō	Õ	Ō	3	2
Singapore	Ó	0	0	0	1	ī
Port Śwettenham	0	0	0	0	0	0
Penang	0	0	0	0	0	0 0 2 0
Batavia		0	0	0	0	0
Soerabaya	0	0	0	0	3	2
Samarang	0	0	0	0	0	0
Belawan Deli		0	0	0	0	0
Padang (Sumatra)	0	0	0	0	0	0
Sabang (Rhio)	0	0	0	0	0	0
Macassar		3	0	0	0	0
Pontianak (Borneo)	. 0	Ō	0	0	0	0
Sandakan (North Borneo)	. 0	0	0	0	0	0
Kuching (Sarawak)	.1 0	0	0	0	1	0
Timor Dilly	0	0	0	0	0	0
Manila	. 0	0	2	Ų	0	0
Zamboanga	. 0	0	0	.0	0	0
Bangkok	. 1	0	31	19	19	Ō
Saigon and Cholon	1	0	0	0	1	0
Halphong		0	0	0	0	Q
Hongkong		0	0		1	.0
Shanghai		0	0	0		10
AmoyNarasakı		0	ŏ	Ö	1	Ŏ
Yokohama		ő	ŏ	ő	ő	Ŏ
Simonoseki		1 6	ő	ŏ	ŏ	Q.
Moji		lŏ	ő	ŏ	ő	0
Kobe		ŏ	ŏ	ŏ	ő	ő
Osaka		ő	ŏ	ŏ	ŏ	X
Niigata		l ŏ	Ŏ	ŏ	ŏ	ň
Tsuruga		Ö	Ŏ	lŏ	ŏ	ň
Hakodate		0	Ì	Ŏ	Ŏ	ŏ
Keelung		0	0	Ō	Ō	0 0 0
Fusan	.! 0	0	0	l ō	0	
Dairen	. 0	0	0	0	2	0
Adelaide	. 0	1 0	0	0	0	Ŏ
Brisbane	. 0	0	0	0	0	0
Fremantle	. 0	0	0	0	0	0
Melbourne	. 0	0	0	0	0	0
Sydney	. 0	0	0	0	0	0
Rockhampton	. 0	0	0	0	0	0 0 0
Townsville	.] 0	0	0	0	0	0
Port Darwin	. 0	0	0	0	0	0
Broome	. 0	0	0	0	0	0
Port Moresby	. 0	0	0	0	0	. 0
Auckland		0	0	0	0	0
Wellington	. 0	0	0	0	0	0
Christchurch Invercargill	0	0	Ó	0	0	0
AUVERCOIGHI	. 0	1 0	0	l n	l n	l v

Park	Plague		Cholera		Smallpox	
Port		Deaths	Cases	Deaths	Cases	Deaths
Honolulu Suez_ Alexandria Port Saud Mombasa (Kenya) Massowah Djibuti Mozambique Lourenco Marques Durben East London Port Elizabeth Cape Town Port-Louis (Mauritius) Seychelles.	0 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000

#### CANADA

Communicable diseases—Week ended February 13, 1926.—The Canadian Ministry of Health reports certain communicable diseases in seven provinces of Canada for the week ended February 13, 1926, as follows:

	Nova Scotia	New Bruns- wick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	Total
InfluenzaPoliomyelitis	32				1			32
Smallpox Typhoid fever			6	13 9	2	8	3 1	26 19

#### ESTHONIA 1

Communicable diseases—November, December, 1925.—Communicable diseases were reported in the Republic of Esthonia for the months of November and December, 1925, as follows:

	Cases r	eported
Disease	Novem- ber, 1925	Decem- ber, 1925
Cerebrospinal meningitis. Diphtheria Leprosy	59 1	2 51 5
Measles Paratyphold fever Scarlet fever	2 6 89	4 1 190
Smallpox Tuberculosis Typhoid fever	125 57	155 58

Population, census, 1,107,059.

#### FINLAND

Communicable diseases—December, 1925.—During the month of December, 1925, 53 cases of communicable diseases were reported in the Republic of Finland, of which 6 were diphtheria, 2 paratyphoid fever, and 45 scarlet fever.

#### GREAT BRITAIN

Disease prevalence—Bristol, England—1924 and 1925.—During the years 1924 and 1925 disease prevalence in Bristol, England, was reported as follows:

19	25	1924	
Cases	Deaths	Cases	Deaths
	425		398
1,138 6	74	979 32	63
65	114	162 12	210
	251	89	15 412
6	28	9 831	8
31	458 75	42	447 8
	Cases  1,138 6 65 12 57 6 1,500	1,138 74 6 114 65 12 251 433 1,500 28 458	Cases Deaths Cases

¹ Population, estimated, 386,200.

Mortality from cancer and organic diseases of the heart.—During the years 1924 and 1925 mortality from cancer and organic diseases of the heart was reported at Bristol, England, as follows: 1924—cancer, 519 deaths; diseases of the heart, 543 deaths; 1925—cancer, 548 deaths; diseases of the heart, 556 deaths.

#### HAWAII TERRITORY

Plague-infected rat—Pauvilo (vicinity)—January 29, 1926.—A plague-infected rat was reported found in the vicinity of Pauvilo village, Hawaii, January 29, 1926.

#### INDIA

Improved health conditions—Bombay.—The advanced summary of vital statistics for Bombay, India, for the year 1925, published in the Times of India; shows that in 1925 Bombay had its lowest death rate since the year 1874, viz, 25.38 per thousand of the population. The disappearance of cholera and plague was stated to have produced a decline in the death rate since 1900, with only one large increase due to the world-wide epidemic of influenza. There was a similar improvement noted in the infant mortality figures for 1925, which

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showed that there were 2,000 fewer deaths of infants during that year than in the preceding year. Plague prevention through the destruction of rats, cholera prevention by sterilization of water, and infant-welfare work are noted as among the chief causes of the decrease in the city death rate.

Rat destruction.—It was stated that the killing of rats at Bombay had been at the rate of 2,000 a day for the past 20 years, with a total, estimated, of 14,000,000 rats destroyed.

Other contributory measures.—Among these are stated improved housing and sanitation, destruction of slums, infant-welfare centers, maternity homes, institution of the antituberculosis league, establishment of tuberculosis sanatoria, and general spread of education.

Proposed hospital extension.—Information dated January 9, 1926, shows that extension of hospital facilities at Bombay is being brought to the attention of the public through the press and through the efforts of a committee organized to consider the needs of the public in connection with hospital relief. It was estimated that the number of beds available for the general public at Bombay is 2,056, and that the minimum number of beds provided should be 4,000, giving a ratio of 3.8 beds per 1,000 of the population. Prior to 1907 the only public hospitals—seven in number—were Government maintained. It is proposed to inaugurate a yearly "Hospital Day" to be devoted to the collection of funds to inaugurate and maintain the proposed extension.

#### LATVIA

Communicable diseases—December, 1925.—During the month of December, 1925, communicable diseases were reported in the Republic of Latvia as follows:

Disease	Cases	Disease	Cases
Cerebrospinal meningitis Diphtheria. Dysentery Leprosy. Measles. Mumps. Puerperal septicemia.	7 54 1 1 258 35 35	Rabies Scarlet fever Smallpox Typhoid fever Typhus fever Whooping cough	1 336 3 45 10 34

#### MEXICO

Street paving and sewer construction—Torreon and Gomez Palacio.—Information dated February 4, 1926, shows that street paving and sewer construction are being carried out at Torreon, State of Durango, Mexico, and that similar measures are under consideration for the town of Gomez Palacio, situated on the Nazas River and nearly opposite Torreon.

#### UNION OF SOUTH AFRICA

Typhus fewer-December, 1925.—During the month of December, 1925, 78 cases of typhus fever with 9 deaths were reported in the Union of South Africa. Of these, 73 cases with 9 deaths occurred among the colored population and 5 cases among the European population. For distribution according to locality, see page 453.

#### VIRGIN ISLANDS

Communicable diseases—January, 1926.—Communicable diseases have been reported in the Virgin Islands of the United States for the month of January, 1926, as follows:

Island and disease	Cases	Remarks
St. Thomas and St. John: Chancroid Dengue Gonorrhea Malaria. Sprue. St. Croix: Dysentery Filariasis. Gonorrhea Tuberculosis.	2 4 2 1 1 1 2 2	1, St. Croix, Falciparum. Entamebic. Bancroiti. Chronic pulmonary.

#### CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

#### Reports Received During Week Ended March 5, 1926 ¹ CHOLERA

Place	Date	Cases	Deaths	Remarks
India	Jan. 3-9 Jan. 4-10	12	11	Dec. 13-19, 1925: Cases, 2,944; deaths, 1,661. Including 100 kilometers of sur- rounding country.
Manila Provinces— Bataan Bulacan Pampanga	Jan. 12–18 Dec. 13–26 Dec. 13–31 Dec. 20–31	5 21 11	10 6 19 10	
Siam: Bangkok	Jan. 3-9	36	30	
	PLA	GUE.		
Brazil: Bahia China: Nanking Hawaii Torritory: Pasulio	Dec. 21-27	1	1	Prevalent. Jan. 29, 1926: Plague-infected rat
India	Dec. 27-Jan. 9 Jan. 2-8 Dec. 20-26 Jan. 3-9	4 26 7	3 26 7	found in vicinity.  Dec. 13-19, 1925: Cases, 1,941; deaths, 1,429.
	<u> </u>			

¹ From medical officers of the Public Health Service. American consula

## Reports Received During Week Ended March 5, 1926—Continued SMALLPOX

#### Place Date Cases Deaths Remarks Brazil: Para. Jan. 10-30 25 5 China: Amoy..... Chungking... Jan. 10-16... Present. ___do__ Do. Manchuria-Harbin ... Jan. 1-7... Nanking.... Jan. 3-9 Prevalent. Esthonia.... November, 1925: Cases, 3. Great Britain: England and Wales..... Jan. 24-30. 365 Newcastle-on-Tyne ... Jan. 24-30 2 Dec. 13-19, 1925; Cases, 2,887; Calcutta Jan. 3-9... 18 10 deaths, 762. Karachi Jan. 10-16 Dec. 27-Jan. 9 Rangoon 8 Indo-China: Saigon .. Jan. 1-10..... 1 Including 100 kilometers of sur-rounding country. Italy: Genoa.... Jan. 21-31 2 Soerabaya_. Dec. 20-26. 52 16 Latvia.... December, 1925: Cases, 3. Including municipalities in Federal district. Varioloid. Mexico City_ Jan. 31-Feb. 6.... 1 Tampico..... Feb. 1-10.... 2 Peru:

#### TYPHUS FEVER

2

1

1

Nov. 22-28, 1925: One case.

Outbreaks.

December.

Jan. 3-9...

Jan. 2-9___

Arequipa_

Bangkok..... Union of South Africa:

Germiston district___

Poland...

Siam:

Mexico: Mexico City	Jan. 31-Feb. 6	2		Including municipalities in Federal district.
Arequipa	December		1	December 1997, Come Mo-
Union of South Africa				December, 1925: Cases, 78; deaths, 9. Colored—cases, 73;
Cape Province				deaths, 9. European, 5 cases. Dec. 1-31, 1925: Cases, 47; deaths,
Do	Jan. 3-9			8. Outbreaks. In Queenstown dis-
Natal— Durban				trict, on farms; and in two native locations.  Municipality. Outbreaks.
Orange Free State				Dec. 1-31, 1925: Cases, 8; 1
Transvaal				death. Dec. 1-31, 1925: Cases, 18.

## Reports Received from December 26, 1925, to February 26, 1926 $^{\rm 1}$

### CHOLERA

Place	Date	Cases	Deaths	Remarks
India	Jan 3-16	101 51 174 26 4	89 63 70 22 4	Oct. 18-Dec. 12, 1925: Cases, 15,753; deaths, 9.254.
Province— Annam. Cochin China. Tonkin.  Japan. Philippine Islands: Manila. Do. Do. Bo. Do. Provinces— Bataan. Bulacan. Do. Laguna. Nueva Ecija. Pampanga. Pampanga. Do. Rizal. Rombion. Russia. Do. Siam: Bangkok. Do. On vessel: Steamship.	dododododododod	8 8 7 1 10 922 1779 18 8 6 1 1002 775 23 77 4 108 270 23	2 3 3 6 4 4 7 7 8 6 5 9 1 4 1 7 5 2 1 1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5. September, 1924: Cases, 7; deaths, 4. (European eases, 2.) September, 1921: None. September, 1921: 1 case; 1 death. September, 1924: None.  Arrived at Bangkok, Siam; cases in coolie passengers.

#### PLAGUE

Argentina				Jan. 21-30, 1926 Six cases, occur- ring in interior provinces of Salta and Santa Fe.
Brazil:				barta ana banta s ci
Bahia	Nov. 8-14	2	į	
Do	Dec. 27-Jan. 2	1	1	
Santos	Dec. 8-21	-	2	
British East Africa:	2000 222222		-	
Kenya-				
Kisumu	Nov. 22-Dec. 5	1	2	
Uganda Protectorate.	SeptOct	256	233	
Canary Islands:	sope. Octamana	200	-00	
La Laguna	Dec. 24	3	2	
Las Palmas	do	i	- 1	
Do	Jan. 7.	li	1	
Santa Cruz de Teneriffe	Dec. 18-27	3	- 1	
Cevion:	Dec. 10-21,			
Colombo	Nov. 15-Dec. 5	3	3	1 plague rodent
Do.	Dec. 27-Jan. 2	i	1 1	1 pragate rederit
China:	Dec. 21-Jan. 2	-	- 1	
Nanking	Nov 15-Jan. 2			Prevalent.
Colombia:	1404 10-9411. 2			TIGVAREIR.
Buenaventura				Feb. 12, 1926: Plague-infected rat.
Ecuador:				reb. 12, 15-6. I Right-intected fat.
Eloy Alfaro	Ton 1-15	1		
Guayaquil	Nor 1-Dog 21	31	12	
Do	Ton 1-15		12	Rats taken, Nov. 1-Dec. 31, 1925;
Recreo (country estate)	30	10		49,370; rats found infected, 281.
rected (contint) esente)				Rats taken, Jan. 1-15, 1926:
1		ļ	1	11,864; rats found infected, 80.
Egypt		1	1	Jan. 1-Dec. 9, 1925; Cases, 138.
Beni Suel.	Nav. 19	i		Corresponding period, 1921;
Fayoum Province	The 0 0	1 :	1 +	Cases, 365.

¹ From medical officers of the Public Health Service, American consuls, and other sources.

## Reports Received from December 26, 1925, to February 26, 1926—Continued PLAGUE-Continued

Place	Date	Cases	Deaths	Remarks
Greece.				
Athens	Nov. 1-30 Nov. 13-Dec. 12	18	4	Including Piræus.
Patras	Nov 13-Dec. 12	4	1	
India				Oct. 18-Dec. 12, 1925: Cases,
Bombay Do Calcutta	Dec. 6-12	1	1	9,963: deaths, 6,900.
D0	Jan. 3-9 Dec. 6-12	2 1	2 1	
Karachi	Nov 1-Dec 19	4	3	
Madras	Nov. 1-Dec. 19 Oct. 25-Nov. 7	75	41	
Do	Nov. 15-21 Oct. 25-Dec. 26	35	22	
Rangoon	Oct. 25-Dec. 26	23	15	
Indo-China				September, 1925: Cases, 17; deaths, 16. September, 1924:
The contract				deaths, 16. September, 1924:
Province— Cambodia	Sept. 1-30	11	11	Cases, fatal, 12. September, 1924: Cases, 9;
Cambodia	sept. 1-50	11	11	September, 1924: Cases, 9; deaths, 9.
Cochin China	SeptOct	14	12	September, 1924: 1 case, 1 death.
Iraq:	Lope. Coulding		(	beprember, 1021. 1 case, 1 death.
Bagdad	Dec. 13-Jan. 2	7	3	
Java.				
Batavia	Oct. 24-Nov. 6	94	89	Province.
Do	Nov. 14-Jan. 1	311	297	
Cheubon	Sept. 27-Oct. 17		166	
Do Djokjakarta	Nov. 15-28 Oct. 20-Nov. 9		59	Enidemie in 1 legality
Kediri.	Oct. 20-Nov. 9 Dec. 7 Sept 27-Oct. 17 Nov. 8-28 Oct. 20 Oct. 11-Dec. 19			Epidemic in 1 locality. Do.
Pekalongan	Sent. 27-Oct. 17		42	20.
Do	Nov. 8-28		80	
Rembang	Oct. 20			Do.
Soerabaya Tegal	Oct. 11-Dec. 19 Sept. 27-Oct. 17 Nov. 8-28	52	52	
Tegal	Sept. 27-Oct. 17	6	6	
D0	Nov. 8-28		14	3T. 1.00 100F. C
Madagascar Province—				Nov. 1-30, 1925: Cases, 232;
	Sent 16 Oct 21	90	- 20	deaths, 220.
Itasy Do	Nov 16-30	20 13	13	
Moramanga	Sept. 16-Oct. 31 Nov. 16-30 Sept. 16-Nov. 30 Sept. 16-Oct. 31	25	25	
Tananarive	Sept. 16-Oct. 31	174	159	
Town-	i e	}		
Fort Dauphin	Sept. 16-Nov. 30 Sept. 16-30 Oct. 16-Nov. 30	6	3	
Tamatave (port)	Sept. 16-30	3	2 9	
Do	Sept. 16-30	9	2	
Tananarive Do	Nov. 1-30	111	11	
Other localities	do	194	182	
Mauritius Island	dodo Sept. 20-Nov. 30 Oct. 1-Nov. 30	ii	10	
Pamplemousses	Oct. 1-Nov. 30	3	2	
Port Louis	ldo	4	1	ļ
Rivière du Rempart	do	2		
Netherlands India: Celebes Island—		1	1	
Macassar	Dec. 12	ł		Epidemic.
Nigeria	August-September.	349	267	is proteine.
Peru:		1		
Huacho	Jan. 26	15		Port 60 miles north of Callac.
Lima	Jan. 1-31	20		In hospital. Some cases in prov-
35-113-	<b>3.</b>	1	1	ince.
Mollendo	Mor Tree	67		12 or 15 cases reported unofficially.
Russia Do	May-June July-August	139		1
Senegal	September - Octo-	45	25	
orm.pm	ber.	1 20	1 -	<b>{</b>
Siam	Aug.23-Oct. 13	. 50	40	l
Bangkok	Nov. 15-28	. 3	3	
Straits Settlements:				•
Singapore	Nov. 1-Dec. 5	. 8	8	1
Syria:	Now 11 00	1	1	}
Beirut Union of South Africa:	Nov. 11-20	1 1		1
Cape Province—		1	1	1
Kimberley district	Dec. 13-19	. 1	l	1
Kimberley district Middleburg district	Dec. 6-12	î		European.
01 1 1 1 1	Nov. 15-21	. î		Native. On farm.
Steynsburg district				The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Steynsburg district Orange Free State—		i	1	l
Steynsburg district Orange Free State— Boshof district Bothaville district	Nov. 29-Dec. 5 Dec. 6-12	1 1		In native. Native. On farm.

## Reports Received from December 26, 1925, to February 26, 1926—Continued SMALLPOX

Place	Date	Cases	Deaths	Remarks
Algeria:				
Algiers	Nov. 21-Dec. 31 Jan. 1-10	177 64		
Arabia: Aden Do	Nov. 29-Dec. 5 Jan. 10-18	1 2	<u>1</u>	Imported.
Argentina: Rosario Australia:	October 1			
Queensland—	Dec. 9-15			
Brisbane Brazil: Rio de Janeiro	Nov. 1-28	134	72	
Do British East Africa: Kenya—	Dec. 6-26	65	26	
Mombasa Uganda Protectorate British South Africa:	Nov. 15-Dec. 19 Sept. 1-Oct. 31	14 8	6 4	
Southern Rhodesia Canada	Nov. 13-Dec. 23	3		Sept. 13-Jan. 2: In 7 Provinces, 186 cases. Jan. 3-23, 1926, cases,
				1 115 Jan. 31-Feb. 6, 1926.
Alberta	Jan. 10-Feb. 6 Dec. 13-19	23		cases, 33. From Drumheller, vicinity of
Calgary British Columbia—	Î	_		Calgary.
Vancouver Manitoba	Jan. 4-10 Jan. 3-Feb. 6	1 20		
Winnipeg	Dec. 13-19	20		
Do	Jan. 3-Feb. 6	9		
New Brunswick— Northumberland	Dec. 6-13	1	l	
Ontario.	Dec. 6-13 December, 1925	32	1	
Do	Jan. I-Feb. b	90		
Admaston	Jan. 1-31	11 2		
Ottawa Do	Dec. 6-12			
Toronto	Dec. 27-Jan. 2	1		
Do	Jan. 3-23 Jan. 1-31	21		
Trenton	Jan. 1-31	7		
Saskatchewan	Jan. 3-Feb. 6	31		
Moose Jaw	Jan. 21-30	2		
Regins	Jan. 21-50	1		
Colombo	Dec. 6-12 Jan. 3-9	1 2		Port case, Do.
China:	Jan. 0-0	-		Во.
Amoy	Oct. 25-Dec. 19 Dec. 7-20	2	1	
Chungking	Nov. 15-Jan. 9			Present.
Foochow	Nov. 1-Jan. 9			Do.
Hankow.	Nov. 14-Dec. 26	4		
Do Hongkong Manchuria—	Jan. 10-16 Nov. 22-Dec. 26	4		
An-shan	Dec. 6-12	1	l	
Do	Jan. 10-16	1		South Manchurian Railway
Changehun.	1 do	1		Do.
Dairen	Oct. 19-Dec. 27 Dec. 28-Jan. 3	73 11	15	
Do Kai-yuan	In 10-16	2	2	Do.
Mukden	Jan. 10-16 Oct. 24-Nov. 15	1		1
Tieh-ling	do	2		t
Nanking	Nov. 21-Dec. 26			Do.
Do	Dec. 27-Jan. 2			. Do.
Shanghai	Oct. 25-Jan. 2	37	36	Cosas foreign
Do. Swatow	Jan. 3-9 Nov. 22-Jan. 16	1 9	16	Cases, foreign. Prevalent.
Tientsin	Nov. 1-Dec. 19	2		1 10 valouv.
Egypt:	1	ī ~		1
Alexandria	Dec. 3-31	. 5		1
Do.	Jan. 8-14	. 2		
France			-	. Sepetmber, October, 1925: Cases,
Gold Coast	September, 1925	. 14	4	91.

## Reports Received from December 26, 1925, to February 26, 1926—Continued SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks	
Great Britain					
England and Wales	Dec. 27-Jan. 23	29		Nov. 15-Dec. 26, 1925: Cases, 790. Dec. 27-Jan. 23, 1926: Cases,	
Hull Leeds	Ten 14-93	29		1,161.	
Newcastle-on-Tyne	Nov. 29-Dec. 19	6		1,101.	
Do	Nov. 29-Dec. 19 Dec. 27-Jan. 23 Nov. 22-Dec. 26	8			
Nottingham	Nov. 22-Dec. 26	9			
Do Sheffield	Dec. 27-Jan. 9	2 7			
Do	Nov. 22-Dec. 12 Dec. 20-26 Dec. 27-Jan. 23	3			
Do	Dec. 27-Jan. 23	10			
Greece	-==			Oct. 1-31, 1925: Cases, 16.	
Athens.	Nov. 1-30	17	1	Oct. 18-Dec. 12, 1925; Cases,	
India	Nov. 8-Dec. 26	26	20	13,609; deaths, 2,928.	
Bombay Do	Nov. 8-Dec. 26 Dec. 27-Jan. 9	26	13	20,000, acatas, 2,020.	
Coloritta	Nov. 29-Dec. 26 Dec. 27-Jan. 2	48	25		
Do	Dec. 27-Jan. 2	30	13		
Karachi Do	Nov. 1-21 Nov. 29-Dec. 5	23 4	2		
Do	Dec. 13-19	3			
Do	Dec. 29-Jan. 9	10	4		
Do Madras	Nov. 15-Dec. 26	17	5		
Do	Dec. 13–19	18	5		
Rangoon	Dec. 6-26	3 4	1		
Indo-China	200. 0 20			September-October, 1925: Cases,	
				204; deaths, 62. September. 1924: Cases, 78; deaths, 22. September, 1924: Cases, 8;	
Province—	a a			1924: Cases, 78; deaths, 22.	
Annam	Sept. 1-Oct 31	80	23	September, 1924: Cases, 8;	
Cambodia	do	72	30	deaths, 2. September, 1924: Cases, 16;	
Cochin China	do	61	30	deaths, 1. September, 1924: Cases, 43;	
Saigon	Dec 21-27	2	1	September, 1924: Cases, 43; deaths, 19.	
Tonkin		22		September, 1924: Cases, 11.	
IraqBagdad	37.			Sept. 6-Oct. 17, 1925; Cases, 81;	
Do	Nov. 1-14 Nov. 22-Dec. 26 Dec. 27-Jan. 2	4 15	4 11	deaths, 40.	
Do	Dec. 27-Jan. 2	5	11		
Italy				Aug. 2-Oct. 31, 1925: Cases, 38.	
Rome	Oct. 12-25	1			
Jamaica				Nov. 29-Dcc. 28, 1925: Cases, 95. Dec. 27-Jan. 30, 1926: Cases, 138. Reported as alastrim.	
		į		138. Reported as alastrim.	
Kingston	Nov. 29-Dec. 26	43		Reported as alastrim.	
Do	Dec. 27-Jan. 30	48		Do.	
Japan Taiwan Taiwan	Nov. 11-Dec. 10	3	l		
Yokohama	Dec. 14-20	i		· ·	
Java:	1	_			
Batavia	Oct. 24-30	1			
DoChenbon	Nov. 14-Dec. 25 Nov. 8-14	7			
Kraksaan	Oct. 11-17	11		-	
Malang	do	2			
North Bantam	Oct. 4-17 Oct. 25-31	4			
Pekalongan Probolingo	Oct. 25-31	1			
Soerabaya	Oct. 11-Dec. 19	581	88		
South Bantam	Oct. 11-17	i			
Tegal Malta	Oct. 4-10	9	1		
Maita Mexico	November	14		Tul- Contember 1005, Deaths	
Aguascalientes	Dec. 13-Jan. 2	4	3	July-September, 1925: Deaths, 1,157.	
Do	Dec. 13-Jan. 2 Jan. 3-30		. 7	1,101.	
Durango	Dec. 1-31		. 1	1	
Do	Jan. 1-31	.1	. 2		
Guadalajara Mexico City	Feb. 1 Nov. 28-Dec. 5	i	. 1	Individual municipalities in Mad	
Do	Jan. 3-23	3		Including municipalities in Federal District.	
San Luis Potosi	Jan. 24-Feb. 6		. 13	Prevalence stated to be decreas-	
Tampico	Dec. 21-Jan. 2	. 1	1	ing.	
Do	Jan. 2-31	. 2		- [	
TorreonNigeria	Nov. 1-Dec. 31 August-September	103	51		
Persia:		105	1	1	
Taharan *	171 000		•	•	

### Reports Received from December 26, 1925, to February 26, 1926—Continued

#### SMALLPOX-Continued

Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru   Peru	Place	Date	Cases	Deaths	Remarks
Poland   Portugal:   Lisbon   Oct. 4-31   121   Do		Oct 1-31		1	
Lisbon	Poland				Nov. 1-7, 1925: Cases, 8.
Do.   Nov. 16-Dec. 27.   60	Portugal:				•
Do.   Nov. 14-Dec. 28   187   17   17   17   17   18   17   18   17   18   17   18   18	Lisbon	Oct. 4-31	124		
Dec.   Dec. 27-Jan. 17.   40   17   Nov. 22-Dec. 19.   2   3   3   Dec.   Dec. 27-Jan. 2.   1   May-June, 1925: Cases, 2,333.   Dec. 27-Jan. 2.   1   May-June, 1925: Cases, 2,333.   Dec. 27-Jan. 2.   1   May-June, 1925: Cases, 2,333.   Dec. 28-Jan. 2.   3   Jan. 28-Jan. 2.   3   Jan. 28-Jan. 2.   3   Jan. 28-Jan. 2.   3   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 28-Jan. 2.   Jan. 29-Jan. 2.   Jan. 29-Jan. 2.   Jan. 29-Jan. 2.   Jan. 29-Jan. 2.   Jan. 29-Jan. 2.   Jan. 29-Jan. 2.   Jan. 29-Jan. 2.   Jan. 29-Jan. 2.   Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan. 29-Jan.	Do	Nov. 16-Dec. 27	107	60	
Nov. 22-Dec. 19.   2   3   3   3   3   3   4   5   5   5   5   5   5   5   5   5		Dec 27-Ian 17		17	
Russia		Nov. 22-Dec. 19	2		
Russia		Dec. 27-Jan. 2			
Do.	Russia				May-June, 1925: Cases, 2,333.
Siam	Do	July-August	760		Later than previously pub-
Bangkok	Q1	*			lished reports.
Dec. 26-Jan. 2		Dag 20-25			denthe 6 1920: Cases, 21;
Sierra Leone: Konno district   Dec. 16-31   5   5   5   5   5   5   5   5   5	Dangaoa	Dec 26-Ian 2	3	3	deaths, v.
Name	Sierra Leone:	200. 20 van. 2	•		
Madrid   Year 1025	Konno district	Dec. 16-31	5		
Malaga					
Do.   Dec. 27-Jan. 2		Year 1925			
Valencia   Dec. 29-28.   1   1   1   1   1   1   1   1   1	Malaga	Nov. 29-Dec. 5			
Do.   Jan. 10-30.   8   June 28-Nov. 21, 1925: Cases, 62, Lucerne   Oct. 1-Nov. 30.   8   June 28-Nov. 21, 1925: Cases, 62, Lucerne   Oct. 1-Nov. 30.   8   June 28-Nov. 21, 1925: Cases, 62, Lucerne   Oct. 1-Nov. 30.   8   June 28-Nov. 21, 1925: Cases, 62, Lucerne   Oct. 1-Nov. 30.   1   June 28-Nov. 21, 1925: Cases, 62, Lucerne   Oct. 1-Oc.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do		Dec. 27-Jan. 2		1	
Do.   Jan. 10-30.   8   June 28-Nov. 21, 1925: Cases, 62, Lucerne   Oct. 1-Nov. 30.   8   June 28-Nov. 21, 1925: Cases, 62, Lucerne   Oct. 1-Nov. 30.   8   June 28-Nov. 21, 1925: Cases, 62, Lucerne   Oct. 1-Nov. 30.   8   June 28-Nov. 21, 1925: Cases, 62, Lucerne   Oct. 1-Nov. 30.   1   June 28-Nov. 21, 1925: Cases, 62, Lucerne   Oct. 1-Oc.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do.   Oct. 1-Do		Dec. 20-20			
Switzerland   Lucerne   Doc. 1Nov. 30   8   Zurich   Zurich   Dec. 27-Jan. 2   1   Imported.	Do	Ton 10-20			
Lucerne	Switzerland	Jan. 10-30			Time 28-Nov 21 1925: Coses 62
Dec. 27-Jan. 2		Oct. 1-Nov. 30	8		Buile 20 1101. 21, 1010. Cases, 02.
Trinidad (West Indies):   Port of Spain   Jan. 22					
Tunisia:   Tunis	Trinidad (West Indies):		_		İ
Tunis	Port of Spain	Jan. 22	1		Imported.
Do.			•	1	
Do.		Nov. 21-30			
Union of South Africa:     Orange Free State—     Ladybrand district.     Transval—     Belfast district.     Dec. 27-Jan. 2.      Belfast district.     Dec. 6-12.  Algeria:     Algiers.     Algiers.     Argentina:     Rosario     Bulgaria     September-October.     Sofia.     Dec. 25-31.     Dec. 25-31.     Antung     Nov. 29-Jan. 2.      Chile:     Valparaiso     Nov. 29-Jan. 2.     Harbin     Dec. 27-Jan. 2.      Harbin     Dec. 17-23.     Harbin     Czeroo     Nov. 5-11.     Port Said     Nov. 1-30.      Finland     France.     Athens.     Nov. 1-30.      Nov. 1-30.      In native compound.  Outbreaks.  Do. Outbreaks.  In native compound.  Outbreaks.  Do. Outbreaks. In native compound.  Outbreaks.  Do. Outbreaks. In native compound.  Outbreaks.  Do. Outbreaks. In native compound.  Outbreaks.  Do. Outbreaks.  In native compound.  Outbreaks.  Poo. Outbreaks. In native compound.	Do	Dec. 11-31		1	
Orange Free State—	Union of South Africa:	Jan. 1-20	3		1
Ladybrand district	Orange Free State—		1	l	
Transvaal—  Belfast district.	Ladybrand district	Dec. 27-Jan. 2			Outbreaks.
Pretoria district	Transvaal			1	
Algeria:	Belfast district	do			Do.
Algeria:	Pretoria district	Dec. 6-12			
Algeria:			İ		poana.
Algiers. Oct. 1-Dec. 20. 4  Argentina: Rosario		TYPHUS	FEVE	ER	
Algiers. Oct. 1-Dec. 20. 4  Argentina: Rosario	_	1	1	<del></del>	
Argentina:   Cot. 13-Dec. 31   2   September - October.   Sofia   Doctober.   Dec. 25-31   1   Doctober.   Dec. 25-31   1   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.   Doctober.		0.4 1 70 05	١.	I	
Rosario		Oct. I-Dec. 20	4		
September-October.   26   2	Augentina:	Oct 13-Dec 21	9	1	
Sofia		September-Oc-		2	
Sofia			1 -0	1 -	
Do.	Sofia	Dec. 25-31			
Valparaiso     Nov. 29-Jan. 2     2       China:     Antung     Nov. 29-Dec. 27     5       Do.     Jan. 4-10     1       Hongkong     Dec. 27-Jan. 2     1       Harbin     Dec. 17-23     1       Czechosłovakia     October, 1925     8       Egypt:     Jan. 8-14     1       Alexandria     Jan. 8-14     1       Cairo     Nov. 5-11     2       Port Said     Nov. 19-25     1       Finland     Image: Trance     July-October     4       Germany     Oct. 25-31     1       Greese:     Athens     Nov. 1-30     11       Z	Do	Jan. 8-14	2		
China:			1	1 .	
Antung Nov. 29-Dec. 27 5 1 Do. Jan. 4-10 1 Hongkong Dec. 27-Jan. 2 1  Manchuria— Harbin Dec. 17-23 1 Czechoslovakia October, 1925 8 Egypt: Alexandria Jan. 8-14 1 Cairo Nov. 5-11 2 2 Port Said Nov. 19-25 1 Finland France July-October 4 Germany Oct. 25-31 1 Greee: Athens Nov. 1-30 11 2	Valparaiso	Nov. 29-Jan. 2		. 2	
Do	Cmna:	70 76	١ .	١.	
Manchuria—       Harbin     Dec. 17-23     1       Czechoslovakia     October, 1925     8       Egypt:     3       Alexandria     Jan. 8-14     1       Cairo     Nov. 5-11     2       Port Said     Nov. 19-25     1       Finland     July-October     4       Germany     Oct. 25-31     1       Greese:     Athens     Nov. 1-30     11       Z		Nov. 29-Dec. 21		1 1	
Manchuria—       Harbin     Dec. 17-23     1       Czechoslovakia     October, 1925     8       Egypt:     3       Alexandria     Jan. 8-14     1       Cairo     Nov. 5-11     2       Port Said     Nov. 19-25     1       Finland     July-October     4       Germany     Oct. 25-31     1       Greese:     Athens     Nov. 1-30     11       Z	Hongkong	Dan 97-Ton 9	1		
Harbin   Dec. 17-23   1	Manchuria—	Dec. 21-9au. 2	1		
Czechoslovakia         October, 1925         8           Egypt:         Jan. 8-14         1           Alexandria         Jan. 8-14         1           Port Said         Nov. 5-11         2           Port Said         Nov. 19-25         1           Finland         Trance         July-October         4           Germany         Oct. 25-31         1           Greee:         Nov. 1-30         11         2	Harbin	Dec. 17-23	1	1	
Egypt:	Czechoslovakia	October, 1925	. 8		,
Cairo Nov. 5-11 2 2 2 Port Said Nov. 19-25 1 Finland July-October 4 Germany Oct. 25-31 1 Greece: Atlens Nov. 1-30 11 2	Egypt:		1	1	,
Port Said Nov. 19-25 1	Alexandria		. 1		
Finland October, 1925: 1 case. France July-October 4 Germany Oct. 25-31 1 Greece: Nov. 1-30 11 2	Cairo	Nov. 5-11		2	ł
France July-October 4  Germany Oct. 25-31 1  Greece: Nov. 1-30 11 2	Fort Said	Nov. 19-25	. 1		0.4-1 1007-1
Germany Oct. 25-31 1		Tuly October			October, 1925: 1 case.
Greece: Athens	Germany	July-October			
Athens Nov. 1-30 11 2	Greece:	1	1		
		Nov. 1-30	.] 11	2	
	Saloniki	Dec. 29-Jan. 4			l

## Reports Received from December 26, 1925, to February 26, 1926—Continued TYPHUS FEVER—Continued

Place	Date	Cases	Deaths	Remarks
T. J J.				
Ireland				
Cork County—	Dec 63 Tem 4		;	
Cerk.	Dec 23-Jan 1	- 2		
Do				
Dumanway	Nov. 14			
Galway County	Oct. 17	į.	,	
Latvia		2		2-4-3- 0-4-3 400F-G
Lithu.ma			,	September-October, 1925: Cases,
~~ .			1	9: deaths, 1.
Mexico		;-	,	July-September, 1925: Deaths,
Aguascalientes	Dec. 14-19	1		90.
Durango	Dec. 1-31 Jan 1-31		1	
Do	Jan 1-31		1	
Guadalajara	Dec. 8-Jan. 4	:==-	3	Y-1-12
Mexico Čity	Nov. 22-Dec. 26 Dec. 27-Jan 30 Dec. 21-Jan. 10 November, 1925	157		Including municipalities in Fed-
Do	Dec. 27-Jan 30	37		eral District.
Tampico	Dec. 21-Jan. 10	1	1 1	
Torreon.	November, 1925		1 1	
Vera Cruz	Feb. 12		1	
Merceco	August, 1925	3		
Palestine:	<b>-</b>	_		
Gaza	Dec. 18	1		
Jaffa	Dec. 1-7	1		
Nazareth	Nov. 3-9			
Safad	Nov. 24-30	1		
Tel-Aviv	ao	1		
Peru:	0.1.7			
Arequipa Poland	October, 1925		2	
Poland	Oct. 11-Nov. 14	142	16	T-1- 1007. G #4. 311- 0
Rumania			,	July, 1925: Cases, 74; deaths, 9. May-June, 1925. Cases, 10,680.
Russia			[	May-June, 1925. Cases, 10,680.
			1	Later than previously pub- lished reports.
Do				
170			!	July-August, 1925: Cases, 3,136.
Union of South Africa				Oct. 1-31, 1925: Cases, 88; deaths,
				7 (colored); cases, 7 (European
O Duemimes	0-4 1 81	63		population). Colored.
Cape Province			5	
Do	Nov. 8-Dec. 26			Outbreaks,
Middleburg district				European. On farm.
Natal	Nov. 29-Dec. 5	1 23		
Orange Free State			1	0-437
Do.			·	Outbreaks. Do.
Bethulia district				Native. On farm.
Bothaville district	do	1		Native. On larm.
Transvaal		1	1	Outbreaks.
Do.	Dec. 13-26			
Bloemhof district	Dec 27-Jan. 2			Outbreaks. On farm.
	YELLO	o rec	ER	·
	Outles	** ****		
Callà Casat	Contombon			
Gold Coast	September	1 2	1 1	1
141801111	ber.	_	1 -	1
	DGI.	1	1	1

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### TREASURY DEPARTM

# PUBLIC HEALTH REPORTS

ISSUED WEEKLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

Volume 41 :: :: Number 11

MARCH 12 - - 1926

### SPECIAL ARTICLES =

Rocky Mountain Spotted Fever: Rickettsia-like Organisms and Infectiveness of Ticks

Recent Court Decisions Relating to Public Health



WASHINGTON
GOVERNMENT PRINTING OFFICE
1926

#### UNITED STATES PUBLIC HEALTH SERVICE

Hugh S. Cumming, Surgeon General

DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg. Gen. B. J. LLOYD, Chief of Division

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# PUBLIC HEALTH REPORTS

VOL. 41 MARCH 12, 1926 No. 11

### ROCKY MOUNTAIN SPOTTED FEVER

A STUDY OF THE RELATIONSHIP BETWEEN THE PRESENCE OF RICKETTSIA-LIKE ORGANISMS IN TICK SMEARS AND THE INFECTIVENESS OF THE SAME TICKS

By R. R. PARKER, Special Expert, and R. R. Spencer, Surgeon, United States Public Health Service 1

Observations upon Rocky Mountain spotted fever infection in the tick vector (Dermacentor andersoni Stiles) have shown repeatedly that if of two groups of hibernating adult ticks from the same infected lot, the ticks of one group were examined without feeding and those of the other after feeding, those of the fed group would show (a) a greater percentage of ticks in which rickettsia can be demonstrated, (b) a tremendous increase in the number of rickettsia in the individual ticks, and (c) a much higher percentage of infective ticks. In fact, in unfed infected adults the rickettsia associated with Rocky Mountain spotted fever are often very difficult, or impossible, to find by smear preparations, whereas in fed ticks of the identical lot they are usually very abundant.

Our observations tabulated below were made upon individual adult ticks, part of them wild and of unknown history, and part reared, infected stock lots, the histories of which were known for at least one full laboratory generation. The latter were infected as larvæ and tested as the resultant adults of the same generation.

Because of our evidence that both infectiousness of spotted fever virus and the presence of rickettsia can be more accurately determined in ticks that have ingested blood, all adults used (except the controls under "A" below) were permitted to feed for two or sometimes three days prior to dissection.

For the demonstration of the rickettsia we depended upon the examination of smears of pieces of tick tissue from the salivary glands, brain, intestines, reproductive organs, Malpighian tubules, and sucking muscles (muscles of the cheliceræ). These smears were fixed for one-half hour in Regaud's solution,³ and stained in Giemsa's solution. The remaining viscera of each tick were inoculated intra-

¹ The authors wish to express their appreciation of the cooperation and assistance furnished by the Montana State Board of Entomology.

² By "lot" is meant that the ticks used are all the progeny of a single female. Such lots are infected as larvæ or nymphs on the same host, and subjected to the same feeding and environmental condition throughout each generation Ticks thus reared are especially valuable for comparative experimental procedure.

 ³ Potassium bichromate (3 per cent)
 100 parts.

 Formalin (40 per cent)
 25 parts.

peritoneally into a guinea pig, thus affording an opportunity to compare smear results with the infectiousness of the same ticks.

## A. ADULT TICKS REARED AND INFECTED IN THE LABORATORY (1923 SERIES)

Table 1 presents the results of smear examinations and viscera inoculations with both fed and unfed adult ticks of the known infected lot, 797 B.4 All ticks in Table 1, except 12 controls (Nos. 1 to 6 and 62 to 67) were first fed on an animal host in order to "reactivate" the virus, next examined for rickettsia by means of smear preparations. and finally tested for infectiveness by inoculating the remaining viscera into a guinea pig. For the smear preparations, parts of the salivary glands, brain, intestines, reproductive organs, and Malpighian tubules were used.

Table 1.—Presence of rickettsia-like organisms in laboratory-reared, infected adult ticks (lot 797 B) compared with the results of injecting guinea pigs with emulsions of the same ticks (section A of text)

				UNFE	DADU	LT TIC.	K8			
1	1		Sta	ined sme	ears					
Pick No.	Date tested	Brain	Sali- Vary gland	Intes- tines	Repro- ductive organs	Mal- pighian tubule	Result of gumen-piz moculation			
1 2 3 1 5 6	July 31, 1923 dododododododo	= -		+	+	+	Negative. Do Do Do Do Died in 6 days. Cause undetermined Negative, subsequently minimum. Do.			
FED ON CALF FROM JULY 21 TO AUGUST 2										
7 8 0 10 11 12 13 11 15	8do + 0do 10do 11do + 12do 13 Aug 7, 1623 T		+	+++++++	-	1++++	Spotted fever Lo Do Do Negative Do. Spotted fever. Po. Negative			
	FF	D ON	JACK	RABBI	T FRO	n n.r.	Y 21 TO AUGUST 1			
16 17 18 19 20 21 22 23 24 25	Aug. 7, 1925dodododododo	+ - + + + - + - +	+++-+-+	+1+++1+1+	+-+	++	Spotted fever Do Do Do Do Do Do Do Do Do Do Negative. Spotted fever Do.			

Iny 26, 1922.—Engorged female collected from a horse.

July 1, 1922.-Larvæ began hatching from eggs deposited by female.

Sept. 12, 1922.—Larvæ began feeding on an infected Belgian rabbit; modulated 5 days previously with a laboratory strain of spotted fever.

Oct. 1, 1922.—Engorged larvæ began molting to flat nymphs.

Apr. 11, 1923.-Normal Belgian rabbit infested with flat nymulas.

May 6. 1923.—Engorged nymphs tested and found infected by inoculation in a guine : pig.

June 2, 1923.—Engorged nymphs began molting to flat adults.

Table 1.—Presence of rickettsia-like organisms in laboratory-reared, infected adult ticks (lot 797 B) compared with the results of injecting guinea-pigs with emulsions of the same ticks (section A of text)—Continued

FED ON HORSE FROM JULY 21 TO AUGUST 8

-			Sta	ined smo	ears		-gapgioner agus incompletion en exa e er en - Acodémico de Alberta de Alberta de Alberta de Alberta de Alberta
Tick No.	Date tested	Brain	Salı- vary gland	Intes- tines	Repro- ductive organs	Mal- pighian tubule	Result of guinca-pig inoculation
26 27 28 29 30 31 32 33 34 35 36	Aug 8, 1923	+++++++	+++-+	+++-+++-	+ + +	+++++++++++++++++++++++++++++++++++++++	Spotted fever Do. Do. Negative. Spotted fever, Do. Do. Ngative. Spotted fever, Do. Do. Spotted fever, Do Spotted fever, Do
	FED	ON B	ELGIA	N RAB	BIT FF	ROM JU	ULY 21 TO AUGUST 7
37 38 39 40 41	Aug. 9, 1923 do dodo	++++++	++++++	++++++	= =	++++++	Spotted fever. Do. Do. Do. Do Do
	FED O	n sno	W81101	E RABI	3IT FR	OM JU	LY 23 TO AUGUST 9
42 43 44 45 46 47	Aug. 11, 1923 do do do do		-+++-+ ++-+	+++	1-++	+++++++++++++++++++++++++++++++++++++++	Spotted fever Do. Do. Do. Do. Do. Do. Do. Do.
		FED	ON SE	EEP F	ROM 3	ULY 2	TO AUGUST 9
48 49 50 51 52 53 54 55	Aug. 13, 1923dododododododododododododododododododo	++++	++++	-+++	1+1+++11	+++++	Spotted fever. Do. Negative Spotted fever Do. Do. Did in 2 days Negative.
•	FE	D ON	GUINE	7 big	FROM	AUGU	ȘT 1 TO AUGUST 20
56 57 58 59 60 61	Aug. 20, 1923	+++++	++++++	+++++++++++++++++++++++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++	+++++	Negative. Spotted fever. Do. Do. Negative. Spotted fever.
				UNFE	D ADU	LT TI	CKS
62 63 64 65 66 67	do	=	= = = = = = = = = = = = = = = = = = = =	+	=======================================	++	Nogative. Do. Do. Do. Do. Do. Do. Do.

Initial tests of unfed control ticks.—On July 21, six unfed ticks (Nos. 1 to 6) were dissected, smeared, and inoculated. Rickettsia were found in only two of them and none of the inoculated guinea pigs developed spotted fever. The rickettsia occurring in such nonfever-producing ticks (Nos. 2 and 4) were always morphologically indistinguishable (coccoidal, short bacillary and diplo-bacillary forms) from those found in the fed ticks which did produce spotted fever.

Tests of fed ticks.—Fifty-five ticks (Nos. 7 to 61) were fed on various hosts as indicated in the table. The following tabulation shows the relationship found between the presence or absence of rickettsia in the smears and the infectiveness of the viscera of these 55 fed ticks:

Rickettsia	in smears	Results of inocula- tion of remaining viscera of identi- cal ticks				
Present	Absent	Spotted fever	Negative			
40	15	35 2 8	¹ 5 7			

¹ Nos. 11, 23, 50, 56, 60. ² Nos. 7, 10, 17, 22, 24, 36, 42, 46.

It is evident that of 40 ticks in which rickettsia were present, 35 produced spotted fever and 5 did not, and that of 15 in which rickettsia were not demonstrated 8 produced spotted fever and 7 did not. Comparing the initial control tests upon the unfed ticks with the fed ticks, marked increases are observed in the proportion of ticks showing rickettsia and the proportion of ticks producing spotted fever following inoculation. The percentage of ticks with rickettsia was increased from 33.33 to 72.72, and that of infective ticks (immunity-producing ticks excluded) from zero to 78.18.5 We observed also the usual tremendous increase in the number of rickettsia in individual tick smears of the fed group as compared with the unfed.

Final tests of unfed control ticks.—Control tests upon the unfed ticks were again made on August 29, following the termination of the experimental feedings. This was done in order to rule out the possibility that the increase in the number of rickettsia noted in smears, and the increase in the infectiveness of the viscera of fed ticks (Nos. 7 to 61) might have been due to some environmental condition other than the tick feeding or some other unrecognized influence to which

^{*}The virus from wintered, unfed ticks has never produced typical infection but has frequently immunized the animals injected. The virus of tick No. 5, Table 1, gave such a result, but was not uncluded in the percentages here given.

the rickettsia in both fed and unfed adults were exposed subsequent to the initial tests, and prior to the tests upon the fed ticks. Of these six unfed ticks (Nos. 62 to 67) none produced spotted fever upon inoculation, and only two showed rickettsia in the smears, these results being identical with those of the initial control test. Therefore, the increase in rickettsia as well as the infectiousness in ticks Nos. 7 to 61 was manifestly brought about by the ingestion of blood and attendant conditions. The rickettsia in these latter unfed controls were, like those in controls Nos. 2 and 4, morphologically indistinguishable from those found in the fed ticks.

## B. WILD ADULT TICKS (1923 SERIES)

It is interesting to compare the results secured with wild ticks with those just given for the known infected lot, 797B. The unfed wild ticks were collected both from the east and west sides of the Bitterroot Valley, the latter being an area of severe infection, whereas no human cases have ever been shown to have originated on the east side, nor have we ever recovered infection from east-side ticks. As before, all ticks were fed on guinea pigs for two days prior to dissection.

Although smears and innoculations were made from 800 ticks we have tabulated in Table 2 only a small selected group of these east and west side wild adult ticks which show definite r.ckettsia. Many of these showed rickettsia similar to those of the infected group in the smears of one or more tissues, but were not infective upon inoculation.

Table 2.—Presence of rickettsia-like organisms in miscellaneous adult ticks from nature, compared with result of injecting guinea pigs with emulsions of the same ticks (section B of text)

FED ON GUINEA PIG JUNE 26 AND 27 (EAR.) SIDE)

		Stained smears							
rick No	Date tested	Brain	Sali- vary gland	Intes- tines	Repro- dac- tive organs	Mal- pig- hian tubule	Result of guinea-pig inoculati		
1 2 3 4 5 6 7	July 17, 1923 do do July 19, 1923 do			= = = = = = = = = = = = = = = = = = = =	+++++++++++++++++++++++++++++++++++++++	+ +	Negative. Do. Do. Do. Do. Do. Do. Do. Do. Do.		
7	Go	FED	ON GU	INEA I	<u> </u>	Y 7 TC	9 (WEST SIDE)		

Negative. Do. Do.

Table 2.—Presence of rickettsia-like organisms in miscellaneous adult ticks from nature, compared with result of injecting guinea pigs with emulsions of the same ticks (section B of text)—Continued

TA IN TO	1185	CHINEA	DIG	7777 37	12 17/1	15	CISTRACTO	STORY	
FED	UN	UUINEA	171(1	JULY	13 10	173	UN EST	P1 (212)	

-	erentus engañ dio mateur purrenum er au	Stained smears					a ayy un man h e delenamente
Tick No.	Date tested	Brain	Sali- vary gland	Intes- tines	Repro- duc- tive organs	Mal- pig- hian tubule	Result of guinea-pig inoculation
12 13 14 15 16 17 18 20 21 22 23 24 25 26 27 28	July 26, 1923		111+11+1+1+1+++	1   + +     + + + +   +     + + + + + +	7++++++1++++++++	+1+++++++++++++	Negative. Do. Do. Do. Do. Do. Do. Do. Do. Do. Do

### C. ADULT TICK TESTS (1925 SERIES)

Two years after the above tests had been performed, two more series of 100 ticks each, infected and uninfected, were similarly tested, with the exception that smears of the sucking muscles (muscles of the cheliceræ) were made in addition to the smears of the other tick tissues. This was done because rickettsia in large numbers are so frequently present in the mucles of infected adults both before and after feeding, especially under the latter conditions.

The 100 ticks of the infected series were from several lots reared in the laboratory. Their histories were analogous to the history of lot 797 B, having been infected as larva during the summer of 1921, reared to adults by fall, and having passed the following winter as unfed adults. The 100 ticks of the noninfected series were collected from the east side of the Bitterroot Valley during the spring of 1925. All ticks of both series were fed on guinea pigs for three days in groups of about 25 to an animal, then dissected, the smears of the six tissues made, and, finally, the remaining viscera of each tick injected into a guinea pig. Healthy male animals weighing 500 grams or over were used exclusively.

Table 3 gives the occurrence and distribution of rickettsia in the two series.

Table 3.—Occurrence and distribution of rickettsia in wild and in reared infected udult ticks of D. andersoni (section C of text)

# [1925 series] RICKETTSIA OCCURRENCE

	Present in-	Absent in-				
100 adult ticks from east side of Bitterroot Valley 1	42 ticks 60 ticks	58 ticks. 40 ticks.				

#### RICKETTSIA DISTRIBUTION

	42 noninfected ticks	60 infected ticks
Rickettsia in muscle smears Rickettsia in brain smears Riekettsia in salvary-gland smears Riekettsia in metatine smears Rickettsia in reproductive organs smears Rickettsia in Malpighan tubule smears	5 ticks	48 ticks.

¹ None of the 100 gumen pigs injected with viscera of these ticks developed spotted fever. ² 65 gumen pigs injected with tick viscera of this lot gave evidence of spotted fever.

In the noninfected east-side group smears of 42 ticks (42 per cent) showed rickettsia. Thirty-six of these showed these organisms in the reproductive organs, while in only 8 ticks were they present in any of the other tissues. In the infected group, on the other hand, rickettsia were present in 60 ticks (60 per cent); and instead of being largely restricted to the reproductive organs, they were usually distributed in large numbers throughout the tissues.

In the noninfected group the rickettsia stained, as a rule, purple or pink and were generally filiform organisms. However, in many instances they closely resembled, and to us were indistinguishable from the deep-blue staining, short bacillary and diplo-bacillary forms found in the infected group.

In the muscle tissue of the infected group the rickettsia were very numerous, stained blue, and frequently were arranged in rows packed between the muscle fibers (not intracellular). This arrangement and staining in the muscles of ticks were features of the rickettsia occurring in the reared infected lot which were never observed in the east-side ticks.

Of the 100 ticks from the east side of the Bitterroot Valley not one produced spotted fever when the viscera were injected into guinea pigs, nor were any of the animals subsequently immune to 1 cc. of guinea pig's blood virus.

Of the infected group which is further analyzed in Table 4, 60 produced spotted fever and 5 (a total of 65 per cent) gave evidence of infection by immunizing the injected guinea pigs against a subsequent injection of blood virus. In some individual lots of this infected group more than 90 per cent gave evidence of infection, in others only 33½ per cent.

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Table 4.—Comparison of results of guineu-pig inoculation of the riscera of 100 reared, infected adult ticks with the presence of rickettsia in the smears of same

# [1925 series] 100 REARED INFECTED ADULT TICKS

60 ticks v	ith ricket orga	tsia in one ins	or more	40 fieks in which ricketts) ( could not be found				
Resu	ilt of guine	ea-pig injec	tion	Rest	ilt of guine	ea-pig injec	tion	
Evidence	finfection	No evid infec		Evidence	ofinfection	No evidence of infection		
Spotted fever	lm- munity	Nogative	Death from inter- current infection	Spotted lever	Im- munity	Negative	Death from inter- current infection	
51	0	5	1	6	5	27	2	

Sixty ticks showed rickettsia in one or more organs. Five of these did not produce spotted fever although the organisms appeared to be identical with those in ticks that did produce the disease.

Among the 40 ticks in which rickettsia were not found, 6 gave spotted fever and 5 immunized the animals injected.

It is evident, then, in testing this group of adult ticks, all infected when larvae with spotted fever virus, that rickettsia could not be demonstrated in the smears of 11 of 65 ticks (16.92 per cent) definitely shown to have contained spotted-fever virus by the injection of the viscera of the identical ticks into guinea pigs, and further that rickettsia indistinguishable from those associated with spotted fever were found in the smears of 5 of 32 ticks (15.62 per cent) that did not produce any evidence of spotted fever when similarly inoculated.

## SUMMARY AND DISCUSSION

The data as presented show the following: (1) That, although of known infected adult ticks the majority of those containing rickettsia were infective, yet of each lot tested a small group of noninfective ticks contained rickettsia morphologically identical, while still another small group was infectious though the tick smears were entirely free of organisms. (2) That of wild ticks from a known infected area a considerable proportion contained rickettsia indistinguishable from those associated with spotted fever, and that the smear and inoculation results of such ticks were parallel with those of the known infected group. (3) That a small proportion of wild ticks from a supposedly uninfected area contained similar rickettsia, but none caused infection.

It is difficult to account for the noninfective rickettsia which were present in part of the known infected, laboratory-reared ticks (Tables

1 and 4) and which exhibited a morphology identical with that of the rickettsia in fever-producing ticks of the same group. They may represent an avirulent phase of the spotted fever virus, although the nonpathogenic nature of these bodies can not, of course, be ruled This accords with previous observations 6 of tick virus in a similar lot of known infected ticks by which we demonstrated various degrees of virulence for guinea pigs ranging from a noninfective or an immunizing phase in unfed, estivating, or hibernating, ticks to an active highly virulent phase following feeding. The term "reactivation" has been used to designate this transition,7 which has been repeatedly observed in known infected lots. For example, in recently infected larvæ, the virus is present but is noninfective unless massive doses are used (5 engorged larvæ very rarely infect; 25 usually, but not always cause infection, often of a mild character); in the resultant unfed hibernating nymphs the virus is present either in a noninfective or immunizing phase, but in the fed nymphs it has acquired marked virulence; a noninfectious or immunizing phase is again encountered in the resultant unfed, estivating, or hibernating, adults, but in the fed adults a high degree of virulence has been reacquired.

In presenting these observations we realize that the relatively small part of the tissue of a tick represented by our smear preparations can not be taken as absolute evidence of the absence of rickettsia from the entire tick. However, it is at least reasonable to believe that they were few in number, since the test ticks had all ingested blood and the rickettsia had thus been afforded, as we have shown, the most favorable conditions for multiplication and distribution throughout the various tissues. There is, of course, the possibility that they were present in an unrecognized form.

### NEW YORK GOVERNOR EMPHASIZES HEALTH NEEDS

INDORSES STATE AID TO LABORATORIES, ADVOCATES COUNTY HEALTH UNIT, AND APPROVES HIGH EDUCATIONAL STANDARDS FOR MEDICAL PRACTICE

A recent issue of the Health Officers' Weekly Bulletin of the New Mexico State Bureau of Public Health calls attention to recommendations regarding public health made by Governor Smith, of New York, in his latest annual message to the State legislature, particularly with reference to extension of State aid to local public health laboratories and the desirability of establishing the county as the unit for public health administration.

⁶ Spencer, R. R., and Parker, R. R.: Rocky Mountain Spotted Fever: Experimental Studies of Tick Virus. Pub. Health Rep., Nov. 28, 1925. Reprint No. 976.

⁷ Spencer, R. R., and Parker, R. R.: Rocky Mountain Spotted Fever: Infectivity of Fasting and Recently Fed Ticks. Pub. Health Rep., Feb. 23, 1923. Reprint No. 817. See also footnote 6.

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The following is quoted from a recent Health News, issued by the New York State Department of Health:

One of the great functions of government is the preservation of public health. Our State health department has established the slogan, "Within certain natural limitations public health is purchasable." No expenditure of public funds brings greater return to the State and its people than the money used for the promotion of the public health. Prevention of disease is cheaper than its cure or long-extended care and support.

Our public health laboratories have been of great assistance in the prevention of disease and are an index of the character and extent of the whole field of public health work throughout the State. There are now 106 approved laboratories in various parts of the State. Since 1923, when the first appropriation was granted for State aid to local public health laboratories, the amounts expended by the State to meet local appropriations have increased yearly and the standards of work have steadily advanced. It is to be hoped that many other localities of the State will take advantage of State aid and increase this very necessary service.

I feel compelled to call your attention to a weakness in our present health administration under the law which has been in existence since the reorganization of the State health department in 1914. The present unit of local health administration is entirely too small for efficient work. It is carried on by general practitioners of medicine in small localities, who, with totally inadequate compensation, are endeavoring, to the best of their ability and with the comparatively short time which they can devote to public health work, to discharge the duties required of them by the public health law, and it is due to the unselfish devotion of the great majority of local health officers and their cooperation with the State health authorities that so much has been accomplished.

The unit for local public health work should be the county, with a full-time, qualified, county health officer, who should be made responsible for the conduct of local health matters within his jurisdiction with only such supervision as the State may be required to give in an advisory capacity. Such an organization has been possible under the law for several years; yet, only one county—namely, Cattaraugus—has seen fit to take advantage of it, and with the very best results in promoting the physical welfare of the inhabitants. Other States have made notable progress in county health administration, and there are now some 250 such organizations throughout the country.

It should also be noted that under the act providing State aid for rural counties, counties which establish a county health organization may receive from the State one-half of the amount appropriated by the county boards. This need not be an expensive service to the local community, and it is to be hoped that in the near future more counties will avail themselves of the provisions of these two laws which mean so much to the promotion of public health. * * *

In recommending the establishment of high standards for medical practice the governor stated:

I renew the recommendation of a year ago that careful consideration be given to the protection of the people of the State from unlicensed and unqualified persons practicing medicine. The cooperation of the medical profession is an essential factor in the protection of the public health, as well as in the care of the sick. A very large part of modern public health is urging people to get the advice of their physicians before serious and perhaps incurable conditions have developed. Such effort comes to naught if unqualified persons are allowed to hold themselves out as physicians. The subject is a difficult one, but the State of New York should take the lead in establishing high standards of medical practice and providing a practicable plan for their enforcement. It is a matter of justice to qualified physicians and of protection to the public.

# SMALLPOX IN FLORIDA

Asst. Surg. Gen. S. B. Grubbs, of the United States Public Health Service, telegraphed from Jacksonville, Fla., under date of March 7, 1926, that from February 1 to March 3, 589 cases of smallpox were reported in Florida. During the same period Jacksonville reported 106 cases of this disease, Miami 154 cases, and West Palm Beach 65 cases. Reports for December and January were published in the Public Health Reports March 5, 1926, page 423.

Efforts are being made by the Public Health Service and by the State and local health authorities to impress the people of Florida with the necessity for vaccination.

# ABSTRACTS OF COURT DECISIONS RELATING TO PUBLIC HEALTH

Payment by counties of fees of local registrars of vital statistics held unlawful.—(Georgia Supreme Court; Smith, Comr., et al. v. State et al., 129 S. E. 542; decided June 22, 1925.) The Georgia constitution provided that "The general assembly shall not have the power to delegate to any county the right to levy a tax for any purpose, except * * * to provide for necessary sanitation." The question presented to the court was whether or not the legislature could, under this constitutional provision, delegate to a county the right to levy a tax for the purpose of paying the fees of registrars of births and deaths under the vital statistics laws of the State. This question the court answered in the negative, holding that the discharge of the duties of local registrars did not provide or tend to provide for necessary sanitation, and also holding that the law authorizing the payment of local registrars from county funds was unconstitutional and void. The following is taken from the court's opinion:

Formerly, officials charged with the financial affairs of a county were not authorized to purchase vaccine matter for the inoculation of persons against smallpox. Daniel v. Putnam County, 113 Ga. 570, 38 S. E. 980, 54 L. R. A. 292. It was doubtless due to this decision that the constitution was so amended in 1908 as to authorize the legislature to empower counties to levy taxes "to provide for necessary sanitation." * * * It was never the intention of the framers of the amendment to the constitution to use the term "sanitation" in its broadest sense. It was not remotely in the mind of the people, in adopting this amendment, to authorize the expenditure of the public funds of a county, to gather data from which those engaged in medical research might discover new means of preventing disease, and in discovering new methods of securing sanitation. If we are to adopt the broadest meaning which could be given to the word "sanitation," the legislature could authorize the county authorities to expend the public funds for the establishment and maintenance of medical and dental colleges, laboratories, maternity hospitals, factories for making medicines, dispensaries, public baths, and institutions for research work designed to disMarch 12, 1926 472

cover new methods of sanifation. We can not conceive that the framers of this amendment, and the people, in adopting it, had any such purpose in view. Clearly their purpose was to empower the legislature to authorize a county to levy a tax for the purpose of applying known and recognized methods of sanitation, such as vaccination to prevent smallpox, serums to prevent typhoid fever, diphtheria, scarlet fever, and the like, the purification of water, the destruction of the mosquito which produces yellow fever and malaria, and other well-known methods of sanitation. This provision of the constitution must be given a plain, practical, and common sense construction. So we are of the opinion that this provision of the constitution does not empower the legislature to authorize a county to levy taxes to pay the fees of these local registrars, and that the statute authorizing their payment from the public funds of the county is unconstitutional and void.

County health officer's expenses in attending professional meeting outside of State not payable by county.—(Mississippi Supreme Court; Miller, State Revenue Agent, v. Tucker et al.; Same v. Harding et al., 105 So. 774; decided November 2, 1925.) In a suit against certain persons as members of the board of supervisors of a county to recover for alleged invalid allowances of claims against the county, one of the items which the court held the board had no authority to allow was for expenses of the county health officer in making a trip to Washington to attend a professional meeting. It was contended that the claim was properly allowed by the board because it fell under the board's jurisdiction "of all matters of county police," but the court ruled adversely to such contention.

Marriage annulled for fraud where husband concealed fact of being an epileptic.—(New Jersey Court of Chancery; Busch v. Gruber, 131 A. 101; decided November 27, 1925.) The petitioner asked an annulment of her marriage on the ground that the defendant had concealed from her the fact that he was afflicted with epilepsy. The court decreed an annulment, stating that "when a man who contracts marriage is and has been suffering from epilepsy (a chronic disease of the nervous system, attended by brain deterioration, which is progressive, is congenital, and likely to be transmitted by marriage and childbearing, and is considered incurable) [and] represents to his prospective wife that he is in good health, had never been sick. and had had no occasion for a doctor, and within a short time after the marriage had epileptic fits, and his wife then for the first time discovered the disease with which he was afflicted, and straightway left him, having had no knowledge of his condition at or before the time of the nuptials, the wife is entitled to have the marriage annulled for fraud, notwithstanding consummation."

Compensation under workmen's compensation act allowed where tuberculosis followed chest injury.—(Iowa Supreme Court; Fraze v. McClelland Co. et al., 205 N. W. 737; decided November 17, 1925.) The plaintiff, a woodworker, was engaged with several other employees in moving a heavy oaken door. During the moving the

door tipped and the plaintiff, resisting it, was finally squeezed against the wall. Three days later on examination by the company physician a small red spot on the chest was the only external evidence of injury, but unsatisfactory internal conditions in the chest were found, and later tuberculosis developed. Up to the time of the injury the plaintiff had always been apparently healthy, but immediately following the injury he lost weight rapidly. The supreme court affirmed the judgment of the lower court granting compensation..

Laws relating to eradication of bovine tuberculosis upheld and construed.—(Iowa Supreme Court; Peverill v. Board of Suprs. of Black Hawk County et al., 205 N. W. 543; decided October 27, 1925.) This case involved the validity and construction of statutory provisions pertaining to testing and to accredited areas in the work of eradicating tuberculosis in cattle. Certain provisions of chapter 48, Laws of 1923, which were attacked were held constitutional and other statutory provisions on the subject of bovine tuberculosis eradication were construed. The plaintiff was denied an injunction to prevent the publication of the necessary notice for the enrollment of a certain county as an accredited area.

# DEATHS DURING WEEK ENDED FEBRUARY 27, 1926

Summary of information received by telegraph from industrial insurance companies for week ended February 27, 1926, and corresponding week of 1925. (From the Weekly Health Index, March 2, 1926, issued by the Bureau of the Census, Department of Commerce.)

	Week en led Feb. 27, 1926	Corresponding week 1925
Policies in force	63, 454, 977	58, 814, 219
Number of death claims	12, 366	11, 954
Death claims per 1,000 policies in force, annual rate.	10. 2	10. 6

Deaths from all causes in certain large cities of the United States during the week ended February 27, 1926, infant mortality, annual death rate, und comparison with corresponding week of 1925. (From the Weekly Health Index, March 2, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week on 27,	ded Feb. 1926	Annual death rate per 1,000	Deaths 1 y	under ear	Infant mortality rate	
City	Total deaths	Death rate 1	1,000 corre- sponding week 1925	Week ended Feb. 27, 1926	Corre- sponding week 1925	week ended Feb. 27, 1926 ²	
Total (68 cities)	8, 887	16.0	13.9	1, 017	966	1 83	
Akron.	35			6	7	64	
Albany 4	48	21, 2	15.5	.8	3	63	
Atlanta	78			13	8		
WhiteColored	37 41			4 9			
Baltimore 4	301	(5) 19.7	16.1	29	37	85	
White.	236	10.1	10.1	20		71	
Colored	65	(5)		9		146	
Birmingham	96	(5) 24, 3	22.3	10	9		
WhiteColored	42			5			
Colored	54	( ⁵ ) 14. 8		5			
Boston	222 37	14.8	19.3	26	50	73 158	
BridgeportBuffalo	155	15.0	18.8	24	35	100	
Cambridge	26	11.3	11.3	3	3	50	
Cambridge Camden	57	23. 1	19.5	7	5	118	
Chicago 4	755	13. 1	12.2	92	95	81	
Cincinnati	120	15.3	14.1	15	10	93	
Cleveland	230 71	12.8	11.0	32	32	83	
Columbus	71 72	13. 2 19. 4	14. 9 13. 2	9	12	46	
White.	56	19.4	10.2	5 8 7	, ,		
Colored	16	(5)		1			
Dayton.	32	9.6	13.6	7 7	6	110	
Denver.	109	20.2	15.8	7	8 7		
Des Moines	57	, 19.9	10.5	2	1 .7	93	
Detroit.	370	15.5	12.1	60	54	97 70	
DuluthEl Paso	30 43	14. 2 21. 4	9.0	6	6	1	
Erie.	28	21.4	17.0	4	6	76	
Erie. Fall River 4	28 32	12.0	16, 2	1	liö	15	
Flint Fort Worth White-	20 31	8.0	10.8	3	5	60	
Fort Worth	31	10.6	9. 6	4	2		
Winte-	24 7			4 2 2			
Colored Grand Rapids	29	9, 8	11.5	1 4	4	158	
Houston	72	22.8	15.8	4 7	7		
White	72 47		1000	2			
Colored	25	17.4		3			
Indianapolis	120	17.4	15.0	18	11	132	
White	104			18 15 3 3	/	127	
Colored Jacksonville, Fla	16 42	(5) 20, 9	10. 9	1 3	3	165 62	
White.	91	20. 11	10. 31	1 3	0	65	
(3-1)	21 21	(5)		2		57	
Jersey City, Kansas City, Kans White. Colored Kansas City, Mo. Los Angeles Los Los Los Los Los Los Los Los Los Los	91	( ⁵ ) 15. 1	10.3	13	4	17	
Kansas City, Kans	20	13. 0	11. 2	1	2	17	
White	24			. 1		21	
Various Other Man	115	(6)	5	13		0	
The Appelon	290		18, 6	19	20 22	53	
Louisvillo	84	14. 5	16. 9	lii	11	9/5	
White	68			10		100	
Colored	. 16	( ⁶ ) 17. 0				63	
Lowell	. 36 26	17.0	14.7	1 8 1 8	. 4	149	
Lynn	. 26	13. 2	16.2	l ī	6	25	
Memphis	85		20 3	8	12		
WhiteColored	32 53	(5)		1 7			
Milwaukee	106	( ⁵ ) 11. 0	10.6 12.7	19	13 15	88	
Minneapolis	75	9. 2	1 40.8	7	1 12	1 100	

¹ Annusi rate per 1,000 population.
2 Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.
3 Data for 63 cities.
4 Deaths for week ended Friday, February 26, 1926.
4 In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended February 27, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, March 2, 1926, issued by the Burcau of the Census, Department of Commerce)—Continued

Total deaths	Infant mortality rate	
Colored	week ended Feb. 27, 1926	
Colored		
New Haven		
New Orleans	122	
White         109         3           Colored         88         (3)         9           New York         1,809         16.1         13.1         213         178           Bronx Borough         196         11.7         9.8         14         15           Brooklyn Borough         610         14.4         11.6         74         57           Manhattan Borough         802         21.5         17.5         99         88           Queens Borough         148         10.8         9.1         24         15           Richmond Borough         53         20.0         16.6         2-3         3           Newark, N. J         124         14.3         12.3         18         12           Not lolk         48         6         6         6           White         20         1         5         1           Colored         22         (*)         5         1           Oakland         65         13 4         14.2         11         3           Oklahoma         68         16.8         14.8         7         2           Paterson         42         15.5         12.1 <t< td=""><td>55</td></t<>	55	
Colored   S8   (5)   9		
Bronx Borough		
Brooklyn Borough   610   14.4   11.6   74   57   Manhattan Borough   802   21.5   17.5   99   88   Queens Borough   148   10.8   9.1   24   15   15   15   15   15   15   15   1	86	
Manhattan Borough   802   21.5   17.5   99   88     Queens Borough   148   10.8   9.1   24   15     Richmond Borough   53   20.0   16.6   2   3     Newark, N. J   124   14.3   12.3   18   12     Not folk   48   6   6   6     White   20   1   5     Colored   22   (*)   5     Oakland   65   13   4   14.2   11   3     Oklahoma City   28   14.8   7   2     Paterson   42   15.5   12.1   6   3     Philadelphia   789   20.8   14.0   70   63	46 75	
Queens Borough     148     10.8     9.1     24     15       Richmond Borough     53     20.0     16.6     2.     3       Newark, N. J     124     14.3     12.3     18     12       Not folk     48	109	
Newark, N. J.         124         14. 3         12. 3         18         12           Not folk         48         6         6         6           White         26         1         1           Colored         22         (*)         5           Oakland         65         13 4         14. 2         11         3           Oklahoma City         28         4         4         4         4         4         4         0         16. 8         14. 8         7         2         2         Paterson         42         15. 5         12. 1         6         3         Phindelphia         789         20. 8         14. 0         70         63	109	
Notolic         48         6         6           White         26         1         1           Colored         22         (a)         5           Oakland         65         13         4         14         2         11         3           Oklahorna City         28	35	
White         26         1	86 112	
Colored         22         (*)         5          5           Oakland         65         13         4         14         2         11         3           Oklahoma City         28          4         4         4         4         4         0maha         68         16.8         14.8         7         2         2         Paterson         42         15.5         12.1         6         3         Phindelphia         789         20.8         14.0         70         63	30	
Oklahoma City         28         4         4         4           Omaha         68         16.8         14.8         7         2           Paterson         42         15.5         12.1         6         3           Philadelphia         789         20.8         14.0         70         63	249	
Omalia         68         16.8         14.8         7         2           Paterson         42         15.5         12.1         6         3           Philadelphia         789         20.8         14.0         70         63	127	
Paterson 42 15.5 12.1 6 3 Philadelphia 789 20.8 14.0 70 63	73	
	104	
Pittshurch   178   147   144   94   14	93	
	80 41	
Portland, Oreg. 66 12.2 12.7 4 5 Providence 83 16.2 14.0 7 14	58	
Richmond 128 35.8 16.5 8 3	101	
White	78	
Colored 44 (5) 4 Rochester 90 14.8 11.2 12 5	140 96	
Rochester 90 14.8 11.2 12 5 St. Louis 240 15.2 14.7 20 12	90	
St. Paul 61 12.9 11.9 5 5	44	
Salt Lake City 4 39 15.5 13.1 4 1	55	
San Antonio 85 22.4 15.8 15 7 San Diego 54 26.6 18.7 3 1	63	
Son Francisco 164 15.3 12.2 15 10	90	
Schenectary 21 11.8 16.9 4 4	115	
Scattle	46	
Spokane. 20 10.5 12.1 3 4 Spokane. 40 19.2 11.0 3 3	78 70	
Springfield Mass 35 12.8 13.2 5 6	72	
Syracuse 44 12.6 14.6 10 6	126	
Tucoma 24   12.0   13.5   1   3	23	
Toledo	97	
Trenton. 50 19.7 14.6 8 6 Washington, D. C. 225 23.6 16.4 21 20	119	
White 139 10	83	
Colored 86 (3) 11	201	
Waterbury 26 5 4 Wilmington, Del. 71 30.3 13.4 7 5	107 164	
Worcester 46 12.6 11.5 4 7	46	
Yonkers 24 11.0 15.1 5 4	112	
Youngstown 28 9.1 14.7 4 8	51	

See footnotes 4 and 5, on p. 174.

# PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

# UNITED STATES

## CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

# Reports for Week Ended March 6, 1926

ALABAMA	Cases	CALIFORNIA	
Chieken pox		Cerebrospinal meningitis:	Cases
Diphtheria		Sacramento.	
Influenza		San Francisco	
Malaria		Chicken pox.	
Measles		Diphtheria	
Mumps		Influenza	
Pellagra	_ 3	Measles	
Pneumonia	189	Mumps	
Scarlet fever	_ 31	Poliomyelitis:	, ates
Smallpox	_ 25		
Tuberculosis		Alhambra	
Typhoid fever.	. 13	Los Angeles	
Whooping cough		Oakland	
		Scarler fever	. 173
ARIZONA		Smallpox:	
Chicken por.	. 7	Brawley.	. 16
Diphtheria.	_ 2	Los Angeles	. 72
Influenza	. 11	Los Angeles County	
Measles.	_ 2	Oakland	
Mumps		Seattering	. 40
Pellagra.		Typhoid fever.	
Pneumonia		Whooping cough	. 55
Scarlet fever	_ 5	OCAROLOS	
Tuberculosis		Chicken pox	. 121
Typhoid fover	_ 3	Diphtheria	27
Whooping cough	_ 3	Impetigo contagiosa	. 1
ARKANSAS		Influenza	. 18
***************************************	_ 20	Measles	. 33
Chicken pox.		Mumps	. 3
Diphtheria.	-	Pneumonia	
Hookworm disease		Scabies	
Influenza		Scarlet fever	
Malaria		Smallpox	
Measles		Tuberculosis	
Mumps		Typhoid fever	. 5
Paratyphoid fever		Whooping cough	107
Pellagra		į.	
Scarlet fever		DELAWARE	
Smallpox		Anthrax	- 1
Trachoma		Chicken pox	. 4
Tuberculosis	10	Diphtheria	. 3
Typhoid fever	. 8	Influenza	15
Whooping cough	39	Measles	. 125
	(A)	78\	

DELAWARE-continued	Cases	HINOIScontinued	Cases
Pneumonia	9	Pneumonia	596
Scarlet fever		Poliomyelitis:	
Tuberculosis		Jasper County	1
Whooping cough	. 6	Kendall County	1
FLORIDA		Scarlet fever	464
		Smallpox	28
Chicken pov.		Tuberculosis	231 15
Diphtheria Gorman measles		Typhoid fever	247
Influenza		whooping congu	241
Malaria		INDIANA	
Measles		Chicken pox	91
Mumps		Diphtheria	30
Pneumonia		Influenza	217
Scarlet fever		Measles	1,790
Smallpox	182	Mumps	1
Tetanus		Pneumonia	68
Tuberculosis		Scarlet fever	220
Typhoid fever	8	Smallpox	98
Whooping cough	12	Trachoma	2
GEORGIA		Tuberculosis	56
		Typhoid fever	5
Anthrax		Whooping cough.	64
Cerebrospinal meningitis			
Dengue		KANSAS	
Diphtheria		Cerebrospinal meningitis-Phillipsburg	1
Dysentery.		Chicken pox	119
Influenza	-	Diphtheria	23
Malaria		Influenza	102
Measles		Measles	243
Mumps		Mumps	19
Paratyphoid fever		Pneumonia	75
Pellagra		Poliomyelitis-Ottawa	1
Pneumonia		Scarlet fever	77
Scarlet fever		Smallpox	16
Septic sore throat		Trachoma	2
Smallpox		Tuberculosis	43
Tuberculosis		Typhoid fever	3
Typhoid fever		Whooping cough	148
Whooping cough		LOT ISIANA	
IDAHO		LO ISIANA	
UNAU		Cerebrospinal meningitis	2
Cerebrospinal meningitis:		Diphtheria	20
American Falls		Influenza	519
Haydon Lake		Leprosy	1
Idaho Falls		Lethargic encophalitis	2
Pocatello		Malaria	8
Post Falls		Pneumonia.	69
Wallace		Scarlet fever	19
Chicken pox		Smallpox	48
Diphtheria		Tuberculosis	36
Influenza		Typhoid fever	16
Measles		MAINE	
Mumps	-		07
Scarlet fever		Chicken pot	27
Smallpox Typhoid fever		Diphtheria German measles	1 9
		Influenza	6
Whooping cough	. 10	Lethargic encephalitis	1
ILLINOIS		Measles	
Cerebrospinal meningitis:		Mumps	
Cook County	. 1	Pneumonia	
Du Page County		Poliomyelitis	
Diphtheria		Scarlet fever	24
Influenza		Septic sore throat	1
Mensles		Tuberculosis	15
*** ******** **************************			

MAINE - continued	Cases 1	Mississiper	Cases
Typhold fever	4	Diphtheria	9
Vincent's angina	2	Influenza	1, (1)9
Whooping cough	29	Searlet fever	1
		Smallpox	6
MARYLAND 1		Typhoid fever	3
Cerebrospinal meningitis		MISSOURI	
Chicken pox	115		
Diphtheria		Cerebrospinal memoritis	
German measles		Chicken pox	
Influenza		Diphtheria	
Lethargic encephalitis		Influenza	
Measles		Measles	
Mumps		Mumps	
Ophthalmia neonatorum		Ophthalmia neonatorum	
Pneumonia (broncho)		Rabies (in animals)	
Pneumonia (lobar)		Scarlet fever	
Scarlet fever		Smallpox	
Septic sore throat		Trachoma	
Tuberculosis		Tuberculosis.	
Typhoid fever		Whooping cough	42
Whooping cough	. 05	MONTANA	
MASSACHUSETTS		Chicken pox	25
Anthray	. 2	Diphtheria	
Cerebrospinal meningitis		German measles	
Chicken pov		Influenza	
Conjunctivitis (suppurative)		Measles.	
Diphtheria		Mumps	
German measles		Rocky Mountain spotted fever	
Influenza.	. 31	Scarlet fever	
Lethargic encephalitis	. 3	Smallpox	
Measles	. 1,446	Tuberculosis	. 3
Mumps	. 121	Typhoid fever	
Ophthalmia neonatorum	. 31	Whooping cough	
Pneumonia (lobar)	_ 133		
Scarlet fever		NEBUASKA	
Septic sore throat		Cerebrospinal meningitis	. 2
Tuberculosis (pulmonary)	_ 111	Chicken pox.	. 33
Tuberculosis (other forms)		Diphtheria	. 4
Typhoid fever		Measles	. 15
Whooping cough	_ 514	Mumps	
*********		Scarlet fever	. 43
MICHIGAN		Smallpox	
Diphtheria		Tuberculosis.	
Measles		Typhoid fever	
Pneumonia		Whooping cough	. 22
Scarlet fever		NEW JERNEY	
Smallpox			
Tuberculosis		Cerebrospinal meningitis	
Typhold fover		Chicken pox	
Whooping cough	_ 245	Diphtheria	
MINNESOTA		Influenza	
Chicken pox	_ 145	Malarin Measles	
Diphtheria	_ 39		
Influenza		Pneumonia Searlet fever	. 600
Lethargic encephalitis	_ 1	Typhoid fever	. 196
Measles	_ 151	Whooping cough	. 6 . 127
Pneumonia	. 2	TT MANAGER COMPAN	. 141
Scarlet fever		NEW MEXICO	
Smallpox	. 1	Chicken pox	. 11
Tuberculosis	_ 49	Conjunctivitis	. 2
Typhold fever	_ 1	Diphtheria	. 17
Whooping cough	. 84	Influenza	

¹ Week ended Friday.

NEW MEXICO-continued	Cases	oregon—continued	Cases
Malaria	. 1	Septic sore throat	1
Measles		Smallpox:	
Mumps	. 11	Linn County	12
Pneumonia	. 24	Portland	15
Scarlet fever	. 12	Scattering.	19
Smallpox	. 4	Tuberculosis	3
Tuberculosis	. 6	Typhoid fever	3
Typhoid fever	. 1	Whooping cough.	45
Whooping cough	. 18	PENNSYLVANIA	
NEW YORK		•	
1120 1011		Cerebrospinal meningitis:	-
(Exclusive of New York City)		Manhelm Township 3 Phuladelphia	1
Cerebrospinal meningitis	. 4	Chicken pox.	896
Chicken pox		Diphtheria	236
Diphtheria		German measles	59
German measles		Impetigo contagiosa	9
Influenza		Lethargic encephalitis.	
Lethargic encephalitis		Bethlehem	1
Measles		Philadelphia	1
Mumps		Pittsburgh	1
Pneumonia		Measles	4, 106
Poliomyelitis		Mumps.	174
Scarlet fever		Pneumonia	123
Septic sore throat		Poliomyelitis-Oil City	1
Typhoid fever		Scables	13
Vincent's angina		Scarlet fever.	734
Whooping cough		Smallpov	6
		Tetanus-Philadelphia	1
NORTH CAROLINA		Tuberculosis	105
Chicken pox	_ 208	Whooping cough	415
Diphtheria	_ 32	SOUTH DAKOTA	
German measles		<b>1</b>	
Measles		Chicken pox.	15
Scarlet fever			9 22
Septic sore throat		Measles	77
Smallpox		1 **	6
Whooping cough	_ 191	Scarlet fever	
OKLAHOMA		Smallpox	
(Exclusive of Tulsa and Oklahoma Cit;	לש	Typhoid fever	
•		Whooping cough	
Chicken pox			
Diphtheria			
Influenza.			
Malaria			14
Measles		1	
Mumps			
Pellagra			
Pneumonia			
Poliomyelitis—Lincoln County		•	
Scarlet fever			
Smallpox			
Typhoid fever			
Whooping cough	_ 00	Smallpox Tuberculosis	
OREGON		Typhoid fever	. 1
Cerebrospinal meningitis	_ 4		
Chicken pox		. 1	
Diphtheria		Man William	
Influenza			
Measles			
Mumps			. 107
Pneumonia		Diphtheria	. 39
Rocky Mountain spotted fever			
Scarlet fever	_ 28	Influenza	3, 523

_ 1	washington—continued	
		Cases
		6
	Whooping cough	71
	WEST VIRGINIA	
		6
	-	136
61		21
35		
		2 3
	Typhota tever	٥
. 49	WISCONSIN	
1	Milwaukee:	
40	Chicken pox	69
	Diphtheria	16
	German measles	4
	Measles	60
	Mumps	38
	Pneumonia	14
	Scarlet fever	18
. 8	Tuberculosis	11
. 1	Whooping cough	56
. 77		
	Chicken poy	124
		26
		172
. 10		103
. 28		351
. 14		184
. 46		1
		20
		155
		155
20	1	3
9		23
. 3		23
39	Whoobing congu	156
00	WYOMING	
41	Objeten non	
		*3
197	Chicken pox	2 22
_ 127	Influenza	38
_ 127 _ 3	Influenza	38 8
_ 127	Influenza Mumps Pneumonia (broncho)	38 8 2
127 3 101	Influenza Mumps Pneumonia (broncho) Pneumonia (lobar)	38 8 2 2
127 3 101	Influenza Mumps Pneumonia (broncho) Fneumonia (lobar) Rocky Mountain spotted fever	38 8 2 2 1
127 3 101 10 66	Influenza Mumps Fneumonia (broncho) Pneumonia (lobar) Rocky Mountain spotted fever Scarlet fever	38 8 2 2 1 10
127 3 101	Influenza Mumps Pneumonia (broncho) Fneumonia (lobar) Rocky Mountain spotted fever	38 8 2 2 1
127 3 101 10 66 5	Influenza Mumps Pneumonia (broncho) Fneumonia (lobar) Rocky Mountain spotted fever Scarlet fever Whooping cough	38 8 2 2 1 10
127 3 101 10 66 5	Influenza Mumps Fneumonia (broncho) Pneumonia (lobar) Rocky Mountain spotted fever Scarlet fever	38 8 2 2 1 10
127 3 101 - 10 66 - 5 ek End	Influenza Mumps Pneumonia (broncho) Fneumonia (lobar) Rocky Mountain spotted fever Scarlet fever Whooping cough	38 8 2 2 1 10
127 3 101 - 10 66 - 5 ek End	Influenza	38 8 2 2 1 10
127 3 101 101 10 66 5 5	Influenza	38 8 2 2 1 10 6
127310110665 ek End	Influenza	38 8 2 2 1 10 6
127 3 101 10 166 5 5 ek End	Influenza	38 8 2 2 1 10 6 Cases 32
- 127 - 3 - 101 - 10 - 66 - 5 - 5 - STRICT OF	Influenza Mumps Pneumonia (broncho) Pneumonia (lobar) Rocky Mountain spotted fever Scarlet fever Whooping cough  led February 27, 1926 F COLUMBIA  Scarlet fever. Tuberculosis	38 8 2 2 1 10 6 Cases 32 25
	61 35 3 40 42 13 14 2 28 4 4 8 1 77 77 31 10 28 14 46	Cases         7         Typhoid fever           26         Whooping cough           1         S4           36         Diphtheria           81         Meusles           35         Scarlet fever           38         Typhoid fover           49         Wisconsin           Milwaukee:         Chicken pox           Chicken pox         Diphtheria           13         German measles           14         Measles           2         Mumps           Pneumonia         Scarlet fever           3         Tuberculosis           1         Whooping cough           5         Scattering:           Chicken pox         Diphtheria           3         German measles           1         Whooping cough           28         Measles           1         Whoping cough           28         Measles           1         Mumps           28         Measles           14         Mumps           28         Measles           14         Mumps           20         Ophthalmia neonatorum           Pneumonia         Scar

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#### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Cere- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
January, 1926 Mississippi Missouri Montana Oregon South Carolina South Dakota Washington	1 3 0 16 2 0 12	94 376 27 109 136 33 70	11, 801 145 22 166 5, 123	2, 063 13 0 0 281 0	1, 398 229 31 65 1 20 66	210	3 1 0 1 0 6 2	65 1,030 147 224 46 442 433	91 48 46 313 52 35 426	53 18 2 22 22 50 4 9

## PLAGUE ERADICATIVE MEASURES IN THE UNITED STATES

The following items were taken from the reports of plague eradicative measures from Los Angeles, Calif.:

Week ended February 20, 1926:

Number of rats trapped	2, 396
Number of rats found to be plague infected	0
Number of squirrels examined	790
Number of squirrels found to be plague infected.	0
Number of mice trapped	3, 312
Number of mice found to be plague infected	0
Date of discovery of last plague-infected rodent, Nov. 6, 1925.	
To 1 . 61. 4 T	

Date of last human case, Jan. 15, 1925.

#### GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended February 20, 1926, 36 States reported 1,244 cases of diphtheria. For the week ended February 21, 1925, the same States reported 1,640 cases of this disease. One hundred cities, situated in all parts of the country and having an aggregate population of more than 30,300,000, reported 797 cases of diphtheria for the week ended February 20, 1926. Last year for the corresponding week they reported 878 cases. The estimated expectancy for these cities was 1,049 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-three States reported 16,651 cases of measles for the week ended February 20, 1926, and 3,496 cases of this disease for the week ended February 21, 1925. One hundred cities reported 11,566 cases of measles for the week this year, and 2,104 cases last year.

Poliomyelitis.—The health officers of 36 States reported 14 cases of poliomyelitis for the week ended February 20, 1926. The same States reported 17 cases for the week ended February 21, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-six States—this year, 3,934 cases; last year, 4,361 cases; 100

cities—this year, 1,800 cases; last year, 2,149 cases; estimated expectancy, 1,235 cases.

Smallpox.—For the week ended February 20, 1926, 36 States reported 944 cases of smallpox. Last year for the corresponding week they reported 1,250 cases. One hundred cities reported smallpox for the week as follows: 1926, 237 cases; 1925, 366 cases; estimated expectancy, 134 cases. Eighteen deaths from smallpox were reported by these cities for the week this year—at Los Angeles, Calif.

Typhoid fever.—One hundred and seventy-seven cases of typhoid fever were reported for the week ended February 20, 1926, by 35 States. For the corresponding week of 1925, the same States reported 289 cases of this disease. One hundred cities reported 38 cases of typhoid fever for the week this year and 60 cases for the corresponding week last year. The estimated expectancy for these cities was 48 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 93 cities, with a population of more than 29,600,000, as follows: 1926, 1,766 deaths; 1925, 1,323.

### City reports for week ended February 20, 1926

The "estimated expectancy" given for diphtheria, poliomyclitis, scarlet fever, smallpox, and typhold fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full mine years, data are used for us many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

	CHA DE	Diph	theria	Influ	ied za	M ca-		Dware	
Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expec- tancy	Cases re- ported	Cases re- ported	Deaths re- ported	sles,	Mumps, cases re- ported	Prieu- monia, deutis re- ported	
						****		'	
75, 333	2	2	0	0	0	Б	4	2	
22, 546 83, 097	0	0	3 1	0	0	13 0	0	2 3	
10, 008	0	0	0	0	o	0	0	0	
128, 993 142, 065	10 10	5 4	1	3 1 0	0 1 0	198 25 193	24 1 0	28 3 1	
69, 760 267, 918	1 0	1 12	2 5	. 0	0	90	0 0	6 8	
(1) 160, 197 178, <del>9</del> 27	3 2 30	9 9 8	6 6 1	2 0 0	000	55 123 26	0 0	8 7 3	
	July 1, 1925, estimated  75, 333  22, 546 83, 967  10, 008  779, 820 122, 963 142, 963 142, 963 142, 963 142, 963 142, 963 142, 963 142, 963 142, 963 142, 963 142, 963 142, 963 142, 963 142, 963 142, 963 142, 963 142, 963	75, 333 2 22, 546 0 83, 007 0 10, 008 0 779, 620 49 128, 993 2 142, 065 10 190, 767 4 69, 700 1 267, 918 0 (1) 2 160, 197 2	75, 333 2 2 2 22, 546 0 83, 007 0 3 10, 008 0 0 779, 620 49 65 128, 903 2 5 142, 065 10 4 190, 787 4 4 69, 700 1 1 12 (1) 60, 197 2 9	75, 333 2 2 2 0 22, 546 0 0 3 1 10,008 0 0 0 779, 620 49 65 18 128, 993 2 5 1 129, 767 4 4 6 69, 760 1 1 1 2 69, 760 1 1 2 69, 760 1 1 2 69, 760 1 1 2 69, 760 1 1 2 69, 760 2 69, 760 2 69, 760 2 69, 760 1 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 69, 760 2 70, 767 4 71, 72, 72, 72, 72, 72, 72, 72, 72, 72, 72	75, 333 2 2 2 0 0 22, 546 0 0 3 1 0 83, 907 0 3 1 0 10, 008 0 0 0 0 0 779, 620 49 65 18 3 128, 993 2 5 1 1 128, 993 2 5 1 1 129, 993 2 5 1 120, 005 10 4 1 0 69, 700 1 1 1 2 0 69, 700 1 1 1 2 0 69, 700 1 1 1 2 5 0 69, 700 1 1 1 2 5 0 69, 700 2 9 6 2 0	Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color   Total Color	Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Case	Total State	

^{&#}x27;No estimate made.

# City reports for week ended February 20, 1926-Continued

0.09	•													
			1	iphtb	eria		Influe	nza		Mea		. Carron To		neu-
Division, State, and	Population July 1, 1925, estimated	Chick- en pox- cases re- ported	Cas mu ext	ti- ted	Cases re- ported	r	ises e- rted	Dea re port	- 1	sles, cases re- porte	s	dump cases re- ported	de	onu, enths re- orted
MIDDLE ATLANTIC														
New York: Buffalo New YorkRochester	538, 016 5, 873, 356 316, 786 182, 003	31 22 2 2 2	5	17 218 8 7	14 14 1	4	111 6 0		1 30 0	2, 6	13 73 61 40		2 19 0 58	22 348 7 4
Syracuso New Jersey: Camden Newark Trenton	128, 642 452, 513	1 7		5 20 5		5 6 4	$\frac{2}{9}$		3 1 2		13 197 4		0	13 18 6
Pennsylvania: Philadelphia Pittsburgh Reading	1, 979, 364 631, 563	16	9 4 4	80 21 3		66 9 0	1 0		14 4 0		514 24 5		16 2 7	125 38 0
EAST NORTH CENTRAL														
Ohio: Cincinnati Cleveland Oolumbus	279, 83	3	9 75 30 53	9 31 4 7		8 46 1 8	0 3 0	;	5 3 1 2	1	3 377 207 48		0 1 0 0	11 27 7 5
ToledoIndiana: Fort Wayne Indianapolis South Bend	97, 84 358, 81 80, 09	9	10 30 7	3 9	2 ]	0 6 1 0	i	0	1 1 0		855 3 1		0 2 0 0	0 15 1 2
Terre Haute Illinois:	2, 995, 23 81, 50	9 1	16 7 14	10		51 0 1	1	0 0 1		ì	151 8 9		20 23 7	107 3 5
Michigan: Detroit Flint Grand Rapids	1, 245, 89 130, 3	6	74 9 6		3	57 3 1		6 8 0		0 1 0 1	, 553 12 9	2	11 0 0	5 1
Wisconsin: Madison Milwaukee Racine Superior	07, 7	92 07	86 6 0	1	0 7 2 1	18 3 0		0 0 0		0		9 1 0	39 5 0	13 2 0
WEST NORTH CENTR.	AL		1										0	2
Minnesota: Duluth Minneapolis St. Paul		35	13 89 49		2 18 13	0 15 6		0		0 1 1	8	3 35 10	3 10	11 8
Iowa: Davenport Des Moines Sioux Otty Waterloo	(1)	771	1 0 1 4		0 4 2 0	0 3 0 0		0				0 1 0 26	0 0 1 1	
Missouri: Kansas City St. Joseph	367, 78,	342	23 1 34		8 2 44	4 2 74		5 0 0		0		19 2 37	(	32
St. Louis North Dakota: Fargo Grand Forks		403 811	4		1	0		0		0		3	1	Õ
South Dakota. Aberdeen Sioux Falls	15,	036 127	2 2		1	0	1	0				37		0 0
Nebraska: Lincolu Omaha	011	941 768	3 16		5	1		0		0		24		1 10
Kansas: Topeka Wichita	55	, 411 , 367	5 7		2 4	(		0		2		15 14		0 2

^{&#}x27;No estimate made.

City reports for week ended February 20, 1926-Continued

			Dipht	heria	Influ	enza			
Division, State, and city	Population July 1, 1925, estimated	Chick- on pox, eases re- ported	Cases, esti- mated expec- tancy	Cases re- ported	Cases te- ported	Deaths re- ported	Measles, cases te- ported	Mumps, enses re- ported	Pneu- monia, deaths re- ported
SOUTH ATLANTIC									
Delaware: Wilmington	122, 019	9	2	3	0	0	228	U	9
Maryland: Baltimore Cumberland	796, 296 33, 741 12, 035	80 0	29 1	15 0	292 2 0	39 1 1	1, 313 1 4	188 0 0	70 3 1
Frederick District of Columbia: Washington	407, 906	0 21	1 15	1 25	30	5	31	0	65
Virginia: Lynchburg Norfolk	30, 395 (1) 186, 403	28 21	1 2	0 1	0	0	0	2 2	4 7 30
Richmond Ronnoke West Virginia: Charleston	58, 208	2	3	4	0	12	30	5	3
Wheeling	49, 019 63, 485 56, 208	2 0 1	2 1 1	0 0 1	0	0 0	3 9 1	0 0	2 5
North Carolina: Raleigh Wilmington Winston-Salem	30, 371 37, 061 69, 031	3 26 18	1 0 1	0	0 0	1 0	4 0 109	0 1 2	4 3 2
South Carolina. Charleston Columbia	73, 125 41, 225	0 5	0	0 0	30	1 0	0	0 3	3 0
Greenville Georgia: Atlanta	27, 311	3	0 3	3	227	9	7	0	34
Brunswick Savannah Florida:	16, 809 93, 134	1	0	0	40	0	0 2	0	6
St. Petersburg Tampa	26, 847 94, 743	4	0 2	1	ī	0 7	<u>3</u>	0	10
EAST SOUTH CENTRAL Kentucky:									
Covington Louisville Tennessee:	58, 309 305, 935	0	1 6	0 2				0	2 9
Memphis Nashville Alabama:	174, 533 136, 220	68 3	4	5				0	21 10
Birmingham Mobile Montgomery	205, 670 65, 955 46, 481	0	1 1	0 1	0		į Q		11 1 0
WEST SOUTH CENTRAL									
Arkansas: Fort Smith Little Rock	31, 643 74, 216	2		0	0 8	1	. 0	0	
New Orleans Shreveport	414, 493	. 1	13 0	5		10			20 4
Oklahoma City Texas:	_ (1)	0	i	a		1	į.	1	4
Dallas Galveston Houston San Antonio	194, 450 48, 375 164, 954 198, 069	18	0 2	11 0 3	0	0 4	0	0	24 5 25 28
MOUNTAIN	100,000			•					~
Montana: Billings	17, 971 29, 883	2	1	0			2	. 5	0
Great Falls Helena Missoula	29, 883 12, 037 12, 668	7   0	0	0	0 0	0	1 0	22 0 2	2
Idaho: Boise	23.042	2 (	1		1	1 0		ıl n	a

¹ No estimate made.

# City reports for week ended February 20, 1926—Continued

		C1 / 1	Dipht	heria	Influ	onza	Mea-		Pneu-
Division, State, and effy	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	sles, cases re- ported	Mumps, cases re- ported	monia, deaths re- ported
MOUNTAIN-continued									
Colorado: Denver Pucblo	280, 911 43, 787	18 4	10 2	11 3	ō	10 0	10 0	1 0	15 0
New Mexico: Albuqueique	21,000	7	1	0	7	3	2	3	5
Arizona: Phoenix	38, 669	1	0	0	0	0	0	0	6
Utah: Salt Lake City	130, 948	23	2	9	0	0	0	17	0
Nevada: Reno	12, 665	0	0	0	0	1	0	1	1
PACIFIC									
Washington: Scattle	(1) 108, 897 104, 455 282, 383	39 17 3	7 4 2 7	7 1 7	0 0 0	0	14 1 3 6	89 0 1	1 13
California: Los Angeles Sacramento San Francisco	(1) 72, 260	124 5 45	36 1 23	41 4 16	89 1 10	15 1 11	16 1 40	26 3 11	35 4 9

¹ No estimate made.

Physical and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Scarle	fever		Smallpo	x	Tuber-	Ту	phold f	ever		
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culosis, deaths		Cases re- ported	Deaths re- ported	cough, cases re- ported	Deaths all causes
NEW ENGLAND											
Muine: Portland	2	9	0	o	0	1	0	0	o	3	27
New Hampshire: Concord Manchester	1 2	0 14	0	0	0	0	0	0	0	0	13 25
Vermont: Barre	. 0	0	0	0	0	2	0	0	0	0	6
Massachusetts:  Boston Fall River Springfield Worcester	60 4 8 10	70 2 11 9	0 0	0 0 0	0 0	20 0 2 3	0 0 0	0 0 1	0 0	183 4 24 7	260 29 30 49
Rhode Island: Pawtucket Providence	1	17	0	0	0	0 2	0	0	0		29 81
Connecticut: Bridgeport Hartford New Haven	8 6 7	18 5 21	0	0	0	0 3 1		0 1 0	001	3	43
MIDDLE ATLANTIC									1		
New York: Buffalo New York Rochester Syracuse	20 248 15 18	20 171 20 2	0 0	0	0	1 1	8		1 0	74	1,861
New Jersey: Camden Newark Trenton	3 24 4			·   0	(	18	11 0	1		5 1	
Pennsylvania Philadelphia Pittsburgh Reading	70	62	1 1	. 1	) (	14				1 2 1 3	688 205 37

Pulmonary tuberculosis only.

City reports for week ended February 20, 1926-Continued

	Scarlet	fever			llpox	Tuber-	Ту	phoid fe	vor	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cuses ro- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	eulo- sis, denths re- ported	mated	Cases re- ported	Deaths te- ported	ing cough, cases re- ported	Deaths, all causes
EAST NORTH CENTRAL											
Ohio: Cincinnati Cleveland Columbus Toledo Indiana:	12 30 10 21	19 87 25 9	1 2 1 4	1 0 2 1	0 0 0	15 8 2 6	0 2 0 0	0 0 0 0	0 0 0	50 119 1 27	153 227 72 59
Fort Wayne Indianapolis South Bend Terre Haute Illinois:	4 9 3 3	4 9 2 2	1 6 1 1	0 43 3 0	0 0	3 7 1 0	0 0	0 0 0	0 0 0 0	0 42 2 0	28 116 11 24
Chicago Peoria Springfield Michigan:	140 5 1	179 5 1	3 1 0	0	0 0 0	47 0 1	3 0 1	5 0 1	0	63 6 21	797 12 25
Detroit	94 8 9	132 19 27	3 1 1	0	0 0	28 0 0	1 1 0	1 0 0	0 0	49 27 77	343 20 32
Madison Milwaukec Riicine Superior WEST NORTH	3 34 5 2	27 4 4	1 3 1 3	0 0	0	9 0	0 0 1	1 0 0	0 0	46 30 1	131 12 7
CENTRAL Minnesota: Duluth Minneapolis St. Paul	4 42 27	20 82 46	1 14 7	0 0	0 0	1 6 3	0 0 1	0 0 1	0 0	15 6 16	30 112 68
Iowa: Davenport Des Moines Sioux City Waterloo	2 7 2	4 2 0 0	2 2 1	0 1 3			0 0 0	0 0		0 0 0 5	
Missouri: Kansas City St. Joseph St. Louis North Dakota:	. 32	32 8 167	2 0 4	9	0	15	0	0 0 1	0 0	20 2 9	95 24 219
Fargo Grand Forks . South Dakotn:	1	0	1	1	0	0	- 0	0	0	0	12
Aberdeen Sioux Falls Nebraska:	3 3	1 2	1 -	0	0	ì	l	0	Ö	0 0	15
Lincoln Omaha Kansas: Topeka	5 2	27	6	17	Ŏ	Ō	1	ő	ő	5	70
Wichita SOUTH ATLANTIC	3	3	i		Ŏ			ő	ŏ	4	40
Delaware: Wilmington Maryland:	. 3	2	1	1	ł		1	0	0	12	51
Baltimore Cumberland Frederick	_  1	29 0 0	1	. 1 0	. 0	2	0	0 0	0 0	33 0 0	352 11 5
Dist. of Columbia: Washington Virginia:	- 23	21	1	1	1	1	1	0	0	8	235
Lynchburg Norfolk Richmond Rounoke West Virginia:	- 0 1 4 0	13	0	1 0	0	3 6	0	0 0	0 0	9 2 2 2 2	96 11
Huntington Wheeling North Carolina:	- 0 1	1		0	0	0	0	. 0	0 0	8 0 0	7 15 23
Raleigh Wilmington Winston-Saler	0 1 0	0	0	1 0		0	1	000	000	0 2 12	20 8 18

# City reports for week ended February 20, 1926-Continued

	Scarlet	fever	Smallpox			Tuber-	Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths 1e- ported	Cases esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
SOUTH ATLANTIC— continued				m				-			
South Carolina: Charleston Columbia Greenville Georgia:	1 0 0	0 0 0	0 0 1	0 0 0	0 0 0	4 0 0	0 0 0	0 0 0	0 0 0	1 0 4	43 
Atlanta Brunswick Savannah	4 0 1	2 0 2	2 0 0	4 0 0	0 0 0	6 0 4	0 0 0	0 1 0	0 0 0	3 0 0	120 4 31
Florida: St. Petersburg Tampa	0	1	0	<u>2</u> 1	0	4 2	0		0	ŏ	29 52
EAST SOUTH CENTRAL											
Kentucky: Covington Louisville Tennessee	2 5	0 11	0	0	0	6 7	1 1	0	0	0 1	24 85
Memphis Nashville Alabama	3	22 5	3 1	15 1	0 0	5 7	0	0	0	2 1	86 62
Birningham Mobile Montgomery	2 0 1	6 0 3	6 1 1	4 0 0	0 0	7 0 0	0 0 0	1 0 0	0 0 0	9 0 0	91 19 23
West south central Arkansas:											
Fort Smith Little Rock Louisiana:	1	7	0	0		0	0	0	ō	0	
New Orleans Shreveport Oklahoma	5 0	6	3	6	0	16 3	2 0	4	1 0	1 0	234 27
Oklahoma City Texas:	1	5	4	0	0	1	0	0	0	1	26
Dallas	2 0 1 1	5 0 1 5	3 0 1 1	3 9 14 0	0 0 0	5 1 4 7	0 1 1 0	0 0 0	0 0 0	11 0 1 0	83 19 107 80
MOUNTAIN  Montana: Billings Great Falls Helena Missoula	1 2 0 0	0 5 0	0 2 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0	3 7 0 8	4 9 4 6
Idaho: Boise Colorado:	. 1	0	0	3	0	0	0	0	0	0	8
Denver Pueble	12	16 2	3 0	0	0	10 1	0	2 0	1 0	43 0	94 7
New Mexico: Albuquerque Arizona:	1	5	0	0	0	6	0	0	0	5	28
Phoenix Utah: Salt Lake City.	1 4	3	0 2	0	0	5	0	0	0	0 21	18 28
Nevada: Reno PACIFIC	0	0	1	1	0	0	0	0	0	0	2
Washington: Seattle Spokane Tacoma Oregon:	- 2	41 24 2	3 7 3	11 1 0	0	1	0 0 1	0 1 0	0	4 0 6	19
Portland California: Los Angeles Sacramento San Francisco	-1 1	14 37 2 17	12 4 0 6	41	18 0 0	36 3 6	2	1 4 0 1	0 0 0 1	608	74 324 35 158

City reports for week ended February 20, 1926-Continued

	Cerebra menir	spinal ngitis	Leth: encept		Pell	ngra	Polior ti	nyelitis ( le paraly	infan- sis)
Division, State, and city	Cuses	Deaths	Cases	Deaths	Cuses	Deaths	Cases, esti- mated expect- ancy	Cares	Deaths
NEW ENGLAND									
Mussachusetts: Boston Springfield MIDDLE ATLANTIC	0	1 0	3	0	0	0	0	0	0
New York: Buffalo New York	0 6	0	0 7	0 6	0	0	0	1 0	1 0
New Jersey: Newark Pennsylvania: Philadelphia	0 1	0	1	0	0	0	0	0	0
EAST NORTH CENTRAL	-		-						
Illinois: Chicago Michigan:	1	0	0	0	0	0	1	1	0
Detroit Wisconsin:	1	0	0	0	0	0	0	0	0
Racine	1	1	"	"			0		
Missouri: St. Joseph St. Louis Nebraska:	1 2	0 3	0	0	0	0	0	0	0
Omaha Kansas:	0	0	1	1	0	0	0	0	0
Wichita	0	0	0	0	0	0	0	1	•
Maryland: Baltimore	2	0	0	0	0	0	0	0	0
North Carolina: Winston-Salem	0	0	0	0	0	2	0	0	a
Georgia: AtlantaFlorida:	0	0	0	0	0	1	0	0	0
Tampa EAST SOUTH CENTRAL	0	0	0	0	. 0	1	0	0	0
Kentucky: Louisville Tennessee:	. 0	0	1	0	0	0	0	0	0
Memphis	. 0	0	0	0	0	1	0	0	0
Birmingham West South Central	. 0	0	1	1	0	0	0	0	U
Arkansus:	. 0	1	0	0	o	0	0	0	0
Louisiana: New Orleans Texas:	. 1	1	0	0	1	1	0	0	0
Dallas Mountain	. 0	0	0	1	1	1	0	U	0
Montana: Great Falls	. 0	0	0	1	0	0	U	U	0
Utah: Salt Lake City	2	1	1	l	0	0	0	0	0
PACIFIC									
Washington: Scattle Spokane	4 2				0	0	0	0	0
Oregon: Portland California:	i	1	0	1	0	0	0	0	0
Los Angeles Sacramento	2	2	0	0	0	0	0	0	0
San Francisco	. 0	0	]	1	0	0	Ű	0	Ď

The following table gives the rates per 100,000 population for 103 cities for the five-week period ended February 20, 1926, compared with those for a like period ended February 21, 1925. The population figures used in computing the rates are approximate estimates as of July 1, 1925 and 1926, respectively, authoritative figures for many of the cities not being available. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and more than 29.750,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from citics, January 17 to February 20, 1926-Annual rates per 160,000 population—Compared with rates for the corresponding period of 1925 1

0j 1820 -	1	тнчіс	HERIA	CASI	RAT	es					
					Week	ended-					
	Jan. 24, 1925	Jan. 23, 1926	Jan. 31, 1925	Jan. 30, 1926	Feb. 7, 1925	Feb. 5, 1926	Feb. 14, 1925	Feb. 13, 1926	Feb. 21, 1925	Feb. 20, 1926	
103 cities	159	142	² 160	142	3 169	4 134	3 163	⁵ 136	153	ē 137	
New England	165	132	192	118	185	97	237	123	232	7 110	
Middle Atlantic East North Central	174 121	137 131	155 2 126	130 138	170 136	129 119	164 124	140 8 132	162	132 8 134	
West North Central	193	206	243	245	247	4 220	251	4 170	116 203	4 204	
South Atlantic	144	152	121	116	3 145	133	3 173	135	148	105	
East South Central	74	73	89	42	58	42	63	47	74	57	
West South Central	154	155	141	142	167	138	154	116	119	80	
Mountain	231	155	129	264	185	127	92	173	157	218	
Pacific	213	140	279	167	257	189	171	140	157	205	
MEASLES CASE RATES											
103 cities	204	1,335	2 204	1, 383	3 242	11,482	3 285	5 1, 719	367	6 1, 986	
New England	479	2, 572	467	2,751	556	2,408	637	2, 347	695	7 2, 706	
New England Middle Atlantic	186	1,088	205	1.185	204	2,408 1,347	286	1,511	371	1,913	
East North Central	352	2,068	2 340	2,088	415	2,152		8 2, 633	637	12,899	
West North Central	26	156	20	277	16	4 400	28	4 549	26	4 677	
South Atlantic	36	2,477	35	2, 280	8 46	2,579	1 92	3, 112	104	3, 276	
East South Central West South Central	68	285 13	84 13	394 26	47 35	711	68	732	47 13	960	
Mountain	240	118	277	100	758	91	148	109	601	137	
Pacific	52	65	17	73	58	105	28	167	61	202	
	so	ARLE'	r fev	ER CA	SE RA	TES	1)	1	u .	<u> </u>	
103 cities	356	292	2 346	287	3 397	1 298	3 385	5 298	376	6 309	
New England	575	300	515	378	592	402	544	362	585	7 365	
Middle Atlantic	325	237	299	235	372	209	406	197	374	208	
East North Central	344	324	2 366	300	398	338	371	8 358	403	8 371	
West North Central	780	669	756	661	844	4 749	695	4 777	719	4 777	
South Atlantic	190	186	175	154	3 241	163	3 261	171	157	150	
East South Central West South Central	168 185	202 69	200 194	100	89 154	119	194	114	205	244	
Mountain	296	373	250	255	324	155	370	218	119 240	108 237	
Pacific	210	256	215	334	246	326	168	310	177	332	
¹ The figures given in this t	able are	rates pe	 er 100,00	) O populs	 stion, ar	nual be	 isis, and	not the	11	1	

Page 18 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 and 19 a

Summary of weekly reports from cities, January 17 to February 20, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925—Continued

#### SMALLPOX CASE RATES

		SMAL	LPOX	CASE	RATES	3				
manufacture included the sublinear statement of the statement		a se september des pr	948 · · · · · · · · · · · · · · · · · · ·	and the second	Week e	nderl				
	Jan. 24, 1925	Jan. 23, 1928	Jan. 31, 1925	Jan. 30, 1926	Feb. 7, 1925	Feb. 6, 1926	Feb. 14, 1925	Feb. 13, 1926	Feb. 21, 1925	Feb. 20, 1926
103 cities	68	35	² 65	40	3 73	4 47	\$76	5 53	64	5 41
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	45 175 35 620 31 92	0 0 33 36 56 47 99 27 194	0 9 189 42 599 57 46 168	0 1 43 53 58 21 125 18 205	0 2 36 141 ³ 58 756 119 28 254	0 0 16 4 54 101 42 155 73 324	0 4 33 187 ³ 92 620 132 157 210	0 1 8 23 4 32 81 52 112 73 461	0 2 52 123 63 488 79 83 204	7 ( 8 3/4 6/ 5 10/ 142 30 19/
	T	YРНОІ	D FEV	ER C	SE RA	LTES				
103 cities	17	13	2 17	8	3 13	47	3 12	\$ 6	10	6
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Most South Central Most South Central Pacific	10 6 12 26 40 46	9 10 3 4 8 5 151 0	7 19 2 10 12 35 21 57 18 3	9 9 4 2 9 10 17 18 11	29 13 8 0 3 16 11 22 28 17	14 3 3 46 13 21 4 36 16	19 6 6 10 3 20 37 44 18	5 64 64 15 10 0 0	0 10 6 4 8 32 40 37 22	2: 1:
	11	IFI.UE	NZA D	EATH	RATE	s				
96 cities	_ 21	20	2 22	29	å 29	4 35	3 27	5 31	20	6.5
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	20 17 19 21 58 87	14 8 10 39 57 94 18	26 16 211 15 36 68 77 37	12	46 24 12 19 8 44 63 92 55 36	104 180 109	26 22 16 11 3 52 58 116 55 4	19 15 8 11 4 4 64 62 302 127 35	17 21 17 21 52 68 145 55	7 5 22 8 1 4 19 13 16 208 109
	1	PNEUN	MONIA	DEAT	H RAT	res				
96 cities		199	2 198	193	3 214	4 206	3 212	4 213	207	r 200
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	343	227 139 81 287 228 312 273	238 278 218	284 208 444 164	204 252 152 106 295 299 334 185 175	201 213 145 4 125 344 249 387 228 185	230 230 158 133 247 289 440 268 171	156 212 8 161 4 78 406 223 553 328 138	232 215 173 127 232 294 387 203 189	7 17: 28: 8 18: 4 12: 48: 29: 55: 17:

Racine, Wis., not included.

Wilmington, Del., not included.

Sioux Falls, S. Dak., not included.

Madison, Wis., and Sioux Falls, S. Dak., not included.

Concord, N. H., Madison, Wis., and Sioux Falls, S. Dak., not included.

Madison, Wis., not included.

Madison, Wis., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively

Group of cities	Number of cities	Number of cities reporting of cities of cities cases deaths				e population reporting		
	reporting cases	deaths	1925	1926				
Total	103	96	29, 944, 996	30, 473, 129	29, 251, 658	29, 764, 201		
New England. Middle Atlantic. East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	12 10 16 14 21 7 8 9	12 10 16 11 21 7 6 9 4	2, 176, 124 10, 346, 970 7, 481, 656 2, 594, 962 2, 716, 070 993, 103 1, 184, 057 563, 912 1, 888, 142	2, 206, 124 10, 476, 970 7, 655, 436 2, 634, 662 2, 776, 070 1, 004, 953 1, 212, 057 572, 773 1, 934, 084	2, 176, 124 10, 346, 970 7, 481, 656 2, 461, 380 2, 716, 070 993, 103 1, 078, 198 563, 912 1, 434, 245	2, 206, 124 10, 476, 970 7, 655, 439 2, 499, 036 2, 776, 070 1, 004, 953 1, 103, 695 572, 773 1, 469, 144		

# FOREIGN AND INSULAR

### THE FAR EAST

Report for week ended February 6, 1926.—The following report for the week ended February 6, 1926, was transmitted by the Far Eastern Bureau of the health section of the League of Nations' secretariat, located at Singapore, to the headquarters at Geneva:

	Pla	gue	Cho	loru		all- ox		Plague		Cholera		Sm 100	
Port	Cases	Deaths	Cases	Deaths	Cases	Deaths	Port	Cases	Deaths	Cases	Deaths   Cases	Deaths	
Calcutta Bombay Madras Rangoon Karachi Negapatam Colombo Basra Singapore Port Swettenham Penang Batavia Soerabaya Samarang Belawan Deli Padang (Sumatra) Sabang (Rhio) Makassar Pontianak (Borneo) Sandakan (North Borneo) Kuching (Sarawak) Manila Zamboanga Bangkok Salgon and Cholon Haiphong Tourane Hongkong Shanghai Amoy Nagusaki Yokohama Simonoseki Moji Kobe Osaka	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 22 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	43 14 15 11 80 36 00 00 40 00 00 00 00 00 00 00 00 00 00	22 4 3 3 1 1 3 0 0 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Niigata Tsuruga Hakodate Keelung Fusan Dairen Adelaide Brisbane Frementle Meibourne Sydney Rockhampton Townsville Port Darwin Broome Port Moresby Auckland Wellington Christehurch Inverengill Honolulu Suez Alexandria Port Said Mombasa (Kenya) Massowah Dilbuti Berbera Mozambique Lourenco Marques Durban East London Pot Elizabeth Cape Town Port Louis (Mauritius) Seychelles	000000000000000000000000000000000000000			000000000000000000000000000000000000000	000050000000000000000000000000000000000	000000000000000000000000000000000000000

## BOLIVIA

Conditions as regards prevalence of tuberculosis—Measures proposed—La Paz.—Information received under date of February 4, 1925, shows that the Society of Medicine and Hygiene of La Paz, which is an organization of the local medical profession, has begun a movement through the press for prevention of the spread of tuberculosis in Bolivia. It was stated that the prevalence was especially among the Indian class of the population. In the high

and dry altitudes in which this class previously lived there was believed to be relatively little tuberculosis, but the influx of the Indian population of the highlands to the more thickly populated centers of the larger cities has apparently greatly increased the prevalence of this disease. It is proposed to establish a tuberculosis hospital at La Paz, to limit the number of persons living in a house, and to institute sanitary and hygienic improvements.

#### BULGARIA

Typhoid fever—Sofia.—During the week ended January 28, 1926, three cases of typhoid fever and one case of paratyphoid fever were reported at Sofia, Bulgaria.

#### CANADA

Communicable diseases—Week ended February 20, 1926.—The Canadian Ministry of Health reports certain communicable diseases in seven Provinces of Canada for the week ended February 20, 1926, as follows:

	Nova Scotia	New Bruns- wick	Quebec	Ontario	Mani- toba	Sas- katch- ewan	Alberta	Total
Cerebrospinal fever Influenza Lethargic encephalitis Smallpox	25		1	1	3 1 8		2	2 28 1 34
Typhoid fever	3		6	5	ž		ī	17

#### CANARY ISLANDS

Plague.—Information received under dates of January 6-20 and February 5, 1926, shows the occurrence of a death from plague at Las Palmas, January 5, 1926, and a case at Santa Cruz de Teneriffe, February 1, 1926.

Public health service.—Information dated December 31, 1925, shows that the public health service of the Canary Islands, which was centered up to October 15, 1925, at Santa Cruz de Teneriffe, has been divided and health organization for the eastern group of islands established independently at Las Palmas.

Summary of plague at Las Palmas.—Two cases of plague were reported at Las Palmas, December 18 and 24, 1925, both with fatal termination, and a plague death was reported January 5, 1926. Plague has been officially declared endemic at Las Palmas.

#### CHINA

Anthrux—Paratyphoid fever—Shanghai—January 10-23, 1926.— During the two weeks ended January 23, 1926, one case of anthrax 82791°—26——3 and one case of paratyphoid fever were reported at Shanghai, China, among the foreign population.

### ECUADOR

Plague—Guayaquil—January 16-31, 1926.—During the half month ended January 31, 1926, 19 cases of plague with 9 deaths were reported at Guayaquil, Ecuador.

Plague-infected rats.—During the same period, 12,808 rats were reported taken at Guayaquil, of which 154 rats were found plague infected.

Communicable diseases—Quito—January, 1926.—During the month of January, 1926, 355 cases of communicable diseases with 34 deaths were notified at Quito, Ecuador, distributed by cause as follows: Diphtheria, cases 2, deaths 2; dysentery, cases 150, deaths 15; influenza, cases 150, deaths 6; tuberculosis, pulmonary, cases 32, deaths 7; typhoid fever, cases 20, deaths 3. Of the typhoid fever deaths, two occurred at the lazaretto. Five of the cases of typhoid fever were from the country.

### GREAT BRITAIN

Smallpox—South Shields.—Under date of February 9, 1926, smallpox in a severe form was stated to be present at South Shields, England, including cases in the Arab quarter of the town. South Shields is situated on the Tyne River.

### JAPAN

Smallpox—Yokohama.—Information received February 23, 1926, shows seven cases of smallpox present at Yokohama.

### MEXICO

General mortality—Mortality from communicable diseases—Tampico—Year 1925.—During the year 1925 mortality from all causes and from communicable diseases was reported, by months, at Tampico. Mexico, as follows:

Minimal of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta											,		-
Diseaso	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Diphtheria 2.		. 1		1	1	1	2	7	2	1 2	2 6	3-	7 22
Enteritis Influenza	29 1	17 2	49 1	127	86	84	110	97	54	39	61	64	817
Malaria Measles	4	3	5 15	3 29	7 14	6 9	19 2	19	11	33	32	17	158 72
Scarlet fever	6	9	3	2	1	3	2					*****	26
Syphilis Tetanus Tuberculosis	22	28	23	26	27	26	22	27	5 20	3 3 20	3 8 19	5 24	14 21 284
Typhoid fever	. 5	9	15	23	15 2	13	17	31	7	12	iï	1	159
All other causes	159	124	,161	.181	136	110	123	104	116	152	170	145	1,689
Total	226	198	272	393	291	253	290	288	221	265	322	263	3, 291

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

### Reports Received During Week Ended March 12, 1926 1

### CHOLERA

Place	Date	Cases	Deaths	Remarks
ChosenIndia	October	6		Dec. 20-26, 1925: Cases, 2,743;
Calcutta Madras Japan	Jan. 17-23	21 15 82	21 10	deaths, 1,529.
Siam: Bangkok	Jan. 10-16	26	16	
Name and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state	PLA	GUE	·	
British East Africa:				
Uganda. Canary Islands	Nov. 1-30	82	. 75	
Santa Cruz de Tenerisse Celebes:	Dec. 28-Feb. 1	3		
Makassar	Dec. 29-Jan. 4	4	4	Netherlands East Indies.
Colombo Ecuador:	Jan. 10-16	1	1	
Guayaquil	Jan. 16-31	19	9	Rats taken: 12,808; rats found plague infected, 154.
Greece: Athens India	Jan. 1-31	14	3	Dec. 20-26, 1926; Cases, 1,355;
Madras Presidency	Dec. 20-26		64	deaths, 1,015.
Rangoon	ł	6	5	Duraninas
Batavia Soerabaya	Dec. 27-Jan. 2	37 10	37 10	Province.
Mauritius Nigeria	Nov. 15-Dec. 26	12 147	104	
Russia	September	18		
Slam Bangkok	Oct. 4-31	3	3	·
Duigaga,	Jam. 10-10			
	SMA	LLPOX		
* * * * * * * * * * * * * * * * * * * *	T	T	Ī	-
Algeria: Algiers British East Africa:	Jan. 21-31	36		
Kenya Mombasa Canada:	Dec. 27-Jan. 2	1		From mainland.
Ontario Toronto	Feb. 6-20	3		,
Chungking	Jan. 17-23 Jan. 3-16			Present.
Manchuria—	Jan. 3-16	. 2		
DairenShanghai	Jan. 4-10 Jan. 10-23	15		Cases among foreign population in International Settlement and French Concession; deaths in foreign and Chinese popu
Onesth Africa Second				lation.
South Manchuria— An-shan	Jan. 17-30	. 2		On railway line.
Changehun.	do	10		Do.
Fushun.	Jan. 17-23	1 2		Do. Do.
Kal-yuan	Jan 17-23	1 1		Do.
Ansaan Changchun Fushun Kai-yuan Ido-yang Mukden Swatow	Jan. 24-30	i		De.
Swatow	Jan. 17-30	.		Prevalent.

¹ From medical officers of the Public Health Service, American consuls, and other sources.

### Reports Received During Week Ended March 12, 1926-Continued

### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Great Britain: Leeds Newcastle-on-Tyne Sheffield South Shields	Jan. 30-Feb. 6do Jan. 21-Feb. 6 Feb. 9	2 10 2		Reported present in severe form Locality 10 miles from New castle on Tyne River. Presen
Greece: Athens India	Jan. 1-31	23	1	in Arab quarter of town.  Dec. 20-26, 1925: Cases, 2,976
Calcutta Madras Rangoon Japan:	Jan. 10-16 Jan. 17-23 Jan. 10-16	25 10 5	13 2	deaths, 750.
Yokohama	Feb. 23	7		
Java: Soerabaya Mexico:	Dec. 27-Jan. 2	17	10	
Guadalajara San Luis Potosi Tampico	Feb. 16-22 Feb. 7-20 Feb. 14-20		2 11	
Torreon	Jan. 1-31		33	
BangkokSpain:	Jan. 10-16	1	1	
Valencia Straits Settlements:	Jan. 31-Feb. 6 Dec. 20-26	ł		
Singapore Union of South Africa: Kuruman district	Jan. 10-16	_		Outbreaks.
	TYPHUS	FEVE	R	
Bulgaria Czechoslovakia Grecce:	November	3 86		
Athens	Jan. 1-31 November	19 3	4	
Mexico: Mexico City	Feb. 6-13	17		Including municipalities in Fed eral District.
San Luis Potosi Morocco	Feb. 6–13. August–November	36	1	Corrected.
**************************************	ATTENDED TO VOLUDOL	1 .		
Norway	November	88	11	
Norway Poland Rumania Russia	November Nov. 1-14	88	11 6	
Norway. Poland Rumanla. Russia. Union of South Africa: Cape Province. Natal.	November Nov. 1-14 August September Jan. 10-16	88 33 715		Outbreaks. At two localities.
Norway Poland Rumania Russia Union of South Africa: Cape Province	November Nov. 1–14 August September	1 88 33 715	6	Outbreaks. At two localities,
Norway. Poland Rumania. Russia. Russia. Union of South Africa: Cape Province. Natal Durban	November. Nov. 1-14. August. September. Jan. 10-16. Jan. 10-16. YELLO	1 88 33 715 1 W FEV	6	Outbreaks. At two localities.
Norway. Poland Rumanla. Russia. Union of South Africa: Cape Province. Natal.	November. Nov. 1-14. August. September. Jan. 10-16. Jan. 10-16. YELLO	1 88 33 715	6	Outbreaks. At two localities.

### Reports Received from December 26, 1925, to March 5, 1926 ¹

### CHOLERA

Place	Date	Cases	Deaths	Remarks
India				Oct. 18-Dec. 19, 1925; Cases,
Calcutta	Nov. 1-28	101	89	18,697: deaths, 10,918.
Do	Dec. 6-Jan. 9	-0-	74	20,007, 4040210, 20,0201
Madras	Nov. 15-Jan. 2	174	70	
Do	Jan. 3-16	26	22	
Rangoon.	Nov. 8-Dec. 5	4	4	
Indo-China				September, 1925: Cases, 9; deaths,
				<ol> <li>September, 1924: Cases, 7;</li> </ol>
Province—				deaths, 4. (European cases, 2.)
Annam	Sept. 1-30	2	2	September, 1924: None.
Cochin China	do	5	3	September, 1924: 1 case; 1 death.
Saigon	Jan. 4-10	1	1	Including 100 kilometers of sur-
	_	_	1	rounding country.
Tonkin	do	2		
Japan	Aug. 30-Oct. 17	409		
Philippine Islands:			ا ا	
Manila	Nov. 9-Jan. 3	15	10	
Do	Jan. 4-18	5	17	
Provinces—	37 00 70 00	- 00	0.0	
Bataan	Nov. 30-Dec. 26 Oct. 18-Nov. 7	29	25	
Bulacan	Nov. 23-Dec. 31	92	64 88	
Do	Nov. 23-Dec. 31 Nov. 23-Dec. 26	200 18		
Laguna Nueva Ecija	do	18	14 2	
Nueva Ecija	Nov. 1-7	1	í	
Pampanga	Nov. 23-Dec. 31	113	85	
Do Rizal	Sept. 27-Nov. 21	75	21	
Romblon	Dec. 7-13	23	12	
Russia	May-June	7	12	
Do	July-August	4		
Siam:	and trasmonini	· ·		
Bangkok	Oct. 4-Nov. 14	108	68	
Do	Nov. 22-Dec. 26	270	149	
Do	Dec. 27-Jan. 9	59	44	
On vessel:		1	1	
Steamship	Oct. 3	9		Arrived at Bangkok, Siam cases in coolie passengers.

### PLAGUE

Argentina				Jan. 24-30, 1926: Six cases, occurring in interior provinces of
Brazil:		_	_	Salta and Santa Fe.
Bahia	Nov. 8-Dec. 27	3	1	
Do	Dec. 27-Jan. 2	1	1	
Santos	Dec. 8-21		2	a .
British East Africa:	1 :			
Kenyn-				
Kisumu	Nov. 22-Dec. 5	2.1	2	
Uganda Protectorate	SeptOct	256	233	
Canary Islands: La Laguna	73.04			
La Laguna	Dec. 24	3	2	
Las Palmas	do	1		
Do	Jan. 7	1	1	
Santa Cruz de Teneriffe	Dec. 18-27	3		
Ceylon:	27			*
Colombo	Nov. 15-Dec. 5	3	3	1 plague rodent.
Do	Dec. 27-Jan. 2	1	1	
China:				_ , ,
Nanking	Nov. 15-Jan. 23			Prevalent.
Colombia:			1	
Buenaventura				Feb. 12, 1926: Plague-infected rat.
Ecuador:		_	ł :	
Eloy Alfaro	Jan. 1-15	1		
Guayaquil	Nov. 1-Dec. 31	. 31	12	
_ Do	Jan. 1-15	15	5	Rats taken, Nov. 1-Dec. 31, 1925:
Recreo (country estate)	do	1		49,370; rats found infected, 281.
			1	Rats taken, Jan. 1-15, 1926:
<b>_</b> .	1	i	ł	11,864; rats found infected, 80.
Egypt.				Jan. 1-Dec. 9, 1925: Cases, 138.
Beni Suef	Nov. 18	1	1	Corresponding period, 1924:
Fayoum Province	Dec. 3-9	1	1	Cases, 365.

From medical officers of the Public Health Service, American consuls, and other sources.

# Reports Received from December 26, 1925, to March 5, 1926—Continued PLAGUE - Continued

I LAGOL - Continue							
Place	Date	Cases	Deaths	Remarks			
1 Aco	37(100	V/III		ulasteski pariyasenta - primordu asaleksenininin - ni od hribiti maanikapasiidajalaksiida			
Greece:		l					
Athens	Nov. 1-30 Nov. 13-Dec. 12	18	4	Including Piræus.			
Patras Hawaii Territory:	NOV. 15-17ec. 12	*	*				
Paauilo				Jan. 29, 1926: Plague-infected rat found in vicinity.			
India				Oct. 18-Dec. 19, 1925; Cases, 11,904; deaths, 8,329.			
Bombay	Dec. 6-12	1 2	1 2	11,904; deaths, 8,329.			
Calcutta	Dec. 6-12	1	1				
Karachi Madras	Nov. 1-Dec. 19 Oct. 25-Nov. 7	4 75	3 41				
Do	Nov. 15-21 Oct. 25-Dec. 26	35	22				
RangoonDo	Oct. 25-Dec. 26 Dec. 27-Jan. 9	· 23	15				
Indo-China				September, October 1925; Cases,			
Description				25; deaths, 23. September, 1921; deaths, 12.			
Province— Cambodia	Sept. 1-30	11	1.1	September, 1924: Cases, 9; deaths,			
Cochin China	September-Octo- ber.	14	12	September, 1924: 1 case, 1 death.			
Iraq: Bagdad	Dec. 13-Jan. 2	7	3				
Java: Batavia	Oct. 24-Nov. 6	94	89	Province.			
Do Cheribon	Nov. 14-Jan. 8 Sept. 27-Oct. 17	341	323 166				
Do	Nov. 15-28			matter to the Chambian			
Djokjakarta Kediri	Dec. 7			Epidemie in 1 locality.			
Pekalongan	Sept. 27-Oct. 17		42				
DoRembang	Nov. 8-28 Oct. 20		5.0	Do.			
Rembang. Soerabaya	Oct. 20. Oct. 11- Dec. 26	59	59				
Tegal Do	Sept. 27-Oct. 17. Nov. 8-28.	8					
Madagascar				Nov. 1-30, 1925; Cases, 232; deaths, 220.			
Province— Itasy	Sept. 16-Oct. 31	20	20				
Do. Moramanga	Nov. 16-30	13	13	1			
Moramanga. Tananariye	Sept. 16-Nov. 30. Sept. 16-Oct. 31	25 174	25 159				
Town	1	1	3				
Fort Dauphin Tametave (port)	1 Sept. 16-60	1 3	2				
Do	. Oct. 16-Nov. 30		9 2				
Tananarive.	Nov. 1-30	11	11				
Other localities	do	104	182				
Mauritius Island Pamplemousses	Sept. 20-Nov. 30 .	11 3	10				
Port Louis Rivière du Rempart	do	.] 4	ī				
Rivière du Rempart Netherlands India: Celebes Island—		2	*** * **				
Makassar	Dec.12	675	267	Epidemic,			
Nigeria Peru:	-	1	201				
Huacho Lima	Jan. 26 Jan. 1-31	15 20	*********	Port 60 miles north of Callao. In hospital. Some cases in prov-			
Mollendo	do			ince. 12 or 15 cases reported thoffi- cially.			
Russia	May-June July-August	67					
Russia Do Senegal	July-August September-Octo-	139 45	25				
	lior	Į					
Siam Bangkok	Aug. 23-Oct. 13 Nov. 15-28	70 3	40				
Bangkok Do	Jan. 3-9.	36	30				
Straits Settlements: Singapore	Nov. 1-Dec. 5	8	8	,			
Syria: Beirut	Nov. 11-20	1					
Little	1 TAOA: TT		*******	•			

### Reports Received from December 26, 1925, to March 5, 1926—Continued

### PLAGUE-Continued

	1			
Place	Date	Cases	Deaths	Remarks
Union of South Africa:				
Cape Province—	Dec 12 10	•		
Kimberley district Middleburg district	Dec. 13-19 Dec. 6-12	1		European.
Stevnsburg district	Nov. 15-21	î		Native. On farm.
Orange Free State— Boshof district	37- 00 D 7		_	
Bosnor district Bothaville district	Nov. 29-Dec. 5 Dec. 6-12	1	1	In native. Native. On farm.
	SMAI	LPOX		
Algeria:				
Algiers.	Nov. 21-Dec. 31	177		
Do	Jan. 1-10	64		
Arabia:	Nov. 29-Dec. 5			Turnantad
Aden Do	Jan. 10-18	1 2	1	Imported.
Argentina:	Van. 10-10-1-1-1	-	*	
Rosario	October		1	
Australia:				
Queensland— Brishane	Dec. 9-15	1		
Brazil.	1	-		
Para.	Jan. 10-30 Nov. 1-28	25	. 5	
Rio de Janeiro	Nov. 1-28 Dec. 6-26	134	72 26	
Do	Dec. 0-20	65	, 20	
Kenya-				
Mombasa Uganda Protectorate	Nov. 15-Dec. 19 Sept. 1-Oct. 31	14	6 4	
British South Africa:	Sept. 1-Oct. 31	°	-	,
Southern Rhodesia	Nov. 13-Dec. 23	3		
Canada				Sept. 13-Jan. 2: In 7 Provinces, 186 cases. Jan. 3-23, 1926, cases.
		1		186 cases. Jan. 3-23, 1926, cases 115. Jan. 31-Feb. 6, 1926
Alberta	Jan. 10-Feb. 26	26		115. Jan. 31-Feb. 6, 1926
Calgary	Dec. 13-19	1		cases, 33. From Drumbeller, vicinity of
British Columbia—			•	Calgary.
Vancouver	Jan. 4-10	1	•	
Manitoba	Jan. 3-Feb. 13	22		ı
Winnipeg	Dec. 13-19	2		
New Brunswick—	Jan. 3-Feb. 6	9		
Northumberland	Dec. 6-13.	1		
Ontario.	Dec. 6-13 December, 1925 Jan. 1-Feb. 13	32	1	
Do	Jan. 1-Feb. 13	103		
Admaston Ottawa	Jan. 1-31	11 2		
Do	Jan. 3-Feb. 6	2		
Toronto	Dec. 27-Jan. 2	1		
Do	Jan. 3-23	21		
Trenton	Jan. 3-Feb. 13	30		
Moose Jaw	do	2		t
Regina	Jan. 24-30	. 1		
Ceylon: Colombo	Dog 8 19	1		Port cose
Do	Dec. 6-12 Jan. 3-9	2		Port case Do.
China:	i	1		
Amoy	- Oct. 25-Dec. 19		. 1	
Do	Jan. 10-16 Dec. 7-20	2		Present.
Antung Chungking Foochow	Nov. 15-Jan. 16	4		Do.
Foochow	Nov. 15-Jan. 16 Nov. 1-Jan. 9 Nov. 14-Dec. 26			Do.
Hankow	1 NAT 14-1360 28	. 4		
Do Hongkong	Jan. 10-16 Nov. 22-Dec. 26	1 4		1
Manchuria—	- 110V. 22-10C. 20	*		1
An-shan	Dec. 6-12	. 1		
Do Changchun	Jan. 10-16	1 1		South Manchurian Railway,
Onangenun	-}QD	-i 1	l	.; 170.

### Reports Received from December 26, 1925, to March 5, 1926—Continued

### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
China - Continued.				
Manchuria-Continued.	0 1 10 70 07	***		
Dairen	Oct. 19-Dec. 27 Dec. 28-Jan. 3	73	15 2	
Do Harbin	Jan. 1-7	11 1	2	
Kai-yuan	Jan. 10-16	2		South Manchurian Railway.
Mukden	Oct. 21-Nov. 15	î		Bodon Manchanan Lanaway.
Tieh-ling	(lo	2		100.
Nanking	Nov. 21-Dec. 26			Present.
Do	Nov. 21-Dec. 26 Dec. 27-Jan. 9			Do.
Shanghai	Oct. 25-Jan. 2	37	36	
1)0	Jan. 3-9	9	16	Cases, foreign.
Swatow	Nov. 22-Jan. 16			Prevalent.
Tientsin	Nov. 1-Dec. 19	2		
Egypt:		_		
Alexandria	Dec. 3-31	5	2	
Do.,	Jan. 8-14	2	1	NY
Esthonia				November, 1925: Cases, 3.
France				September-October, 1925: Cases,
Gold Coast	September, 1925	14	4	91.
Great Britain:	Septemmer, 1920	1-2	•	
England and Wales			1	Nov 15-Dec 26, 1925: Cares, 790
Hull	Dec. 27-Jan. 23	29		Nov. 15-Dec. 26, 1925; Cares, 790. Dec. 27-Jan. 30, 1926; Cases,
Leeds	Jan. 14-23	2		1,526.
Newcastle-on-Tyne	Nov. 29-Dec. 19	6		-,
Do	Then 07 Iam 20	10		
Nottingham	Nov. 22-Dec. 26	9		
Do	Dec. 27-Jan. 9	2		}
Sheffield	Nov. 22-Dec. 12	7		
Do	Dec. 20-26	3		
_ Do	Nov. 22-Dec. 26 Nov. 22-Dec. 12 Nov. 22-Dec. 12 Dec. 20-26 Dec. 27-Jan. 23	10		
Greece				Oct. 1 31, 1925: Cases, 16.
Athens	Nov. 1-30	17	1	Ont 10 Day 10 1005; Caren
India	Nov. 8-Dec. 26	26	20	Oct. 18-Dec. 19, 1925; Cuses, 16,496; deaths, 3,690.
Bombay Do	Dec. 27-Jan. 9	26	13	ingreen, dentina, opinion
Calcutta	Nov. 29-Dec. 26	48	25	
Do	Dec. 27-Jan. 9	48	23	
Karachi	Nov. 1-21	23		
Do	Nov. 29-Dec. 5	4	2	
Do	Dec. 13-19	3		
Do	Dec. 29-Jan. 16	12	6	
Madras	Nov. 15-Dec. 26 Dec. 27-Jan. 16	17	5	
Do	Dec. 27-Jan. 16	18	5	
Rangoon	Oct. 25-Nov. 28	3		
Do	Dec. 6-26	4	1 1	
Do	Dec. 27-Jan. 9	8	1	Cartardan Databan Chite Chann
Indo-China				September-October, 1925: Cases,   201: deaths, 62. September,
Province-	-	l		201; deaths, 62. September, 1921; Cuses, 78; deaths, 22.
Annam.	Sept. 1-Oct. 31	90	23	September, 1924: Cares, 8;
AX14141444	Bept. 1-Oct, 01		40	deaths, 2.
Cambodia	do	72	30	September, 1924; Cures, 16;
~~~~~~~~~			170	deaths, 1.
Cochin China	do	61	30	September, 1924; Cuse, 43;
Salgon	Dec. 21-27	2	1	deaths, 19.
Do	Jan. 1-10	ī		Including 100 kilometers of sur-
	ļ	1		rounding country.
Tonkin	do	22		September, 1924: Cases, 11.
Iraq				Sept. 6-Oct. 17, 1925; Cases, 81;
Bagdad	Nov. 1-14	.4	4	deaths, 40.
Do	Nov. 22-Dec. 26	15	11	
Do	Dec. 27-Jan. 2	5	2	L. 0.0-1 84 MON 41 . 55
Italy Genoa Rome				Aug. 2-Oct. 31, 1925: Cuses, 38.
enos	Jan. 21-31	2		
Lome	Oct. 12-25	1		Nov 00 The De Mote Chare to
Jamaica				Nov. 29-Dec. 26, 1925; Cases, 95. Dec. 27-Jan. 30, 1926; Cases,
	I	1	ŀ	1700. 21-0011. OU, 1020. (880%,
	7	i .		
Kingston	Nov. 29-Dec. 26 Dec. 27-Jan. 30	43		138. Reported as alastrim. Reported as alastrim.

Reports Received from December 26, 1925, to March 5, 1926—Continued

SMALLPOX-Continued

Place	Place Date		Deaths	Remarks
Japan:	and the second s			
Taiwan	Nov. 11-Dec. 10	3		
Yokohama Java:	Dec. 14-20	1		
Batavia	Oct. 24-30	1		
DoCheribon	Nov. 14-Dec. 25 Nov. 8-14	7		
Kraksaan	Oct. 11-17	11		
Malang	Oct. 4-17	2		•
North Bantam	Oct. 4-17 Oct. 25-31	4		
Pekalongan Probolingo	Oct. 11-17	1		
Soerabaya	Oct. 11-Dec. 26	633	104	
South Bantam.	Oct. 11-17 Oct. 4-10	1 9	1	
Tegal Latvia	000. 4-10	ย	·	December, 1925: Cases, 3.
Malta	Nov. 1-Dec. 31	21	3	,
Mexico	Dec. 13-Jan. 2	4	3	July-September, 1925: Deaths, 1,157.
Do	Jan. 3-30	*	7	1,101.
Durango	Dec. 1-31		1	
Do	Jan. 1-31		2	
Guadalajara Mexico City	Feb. 1	1		Including municipalities in Fed-
_ •		_		eral District.
San Luis Potosi	Jan. 3–23 Jan. 24–Feb. 6	3	13	Do. Prevalence stated to be decreas-
Tampico	Dec. 21-Jan. 2	1	1	ing.
Do	Jan. 2-Feb. 10	4		•
Torreon Nigeria	Nov. 1-Dec. 31 August-September	103	51	
Persia:			-	
Teheran	July 23-Sept. 22		203	
Peru: Arequipa	Oct. 1-Dec. 31		2	
Poland				Nov. 1-28, 1925: Cases, 9.
Portugal.		l		
Lisbon Do	Oct. 4-31 Nov. 16-Dec. 27	124	60	
Do	Nov. 14-Dec. 26	187		
Do	Dec. 27-Jan. 17 Nov. 22-Dec. 19	40	17	
Oporto	Dec. 27-Jan. 2	í		
Russia				May-June, 1925: Cases, 2,333. Later than previously pub- lished reports.
Do	July-August	760		later than previously pub-
Siam	~~~~~~			July 12-Sept. 5, 1925; Cases, 21;
Bangkok.	Dec. 20-25	3	1	deaths, 6.
Do Sierra Leone:	Dec. 26-Jan. 9	5	4	
Konno district	Dec. 16-31	5		
Spain:	***** 100°			
Madrid Malaga	Year 1925 Nov. 29-Dec. 5		. 18	ł
Do	Dec 27-Tan 2	ł	2	[
Valencia	Dec. 20-26	1		
Do	Dec. 20-26 Dec. 27-Jan. 2 Jan. 10-30	1 8		
Switzerland				June 28-Nov. 21, 1925: Cases, 62.
Lucerno	Oct. 1-Nov. 30 Dec. 27-Jan. 2	8		
Trinidad (West Indies):	Dec. 27-38H. 2	1 1		
Port of Spain	Jan. 22	1		Imported.
Tunisia:	NTorr 91_90	2		
Tunis Do	Nov. 21-30 Dec. 11-31	10	1	1
Do	Jan. 1-20	5		
Union of South Africa:			1	
Orange Free State— Ladybrand district	Dec. 27-Jan. 2			Outhreaks.
Transvaal-	2-	1		
Belfast district Germiston district	Jan. 2-9 Dec. 6-12			Do. Do.
Pretoria district	Dec. 6-12			Outbreaks. In native com-
				pound.
	1	I	1	1

Reports Received from December 26, 1925, to March 5, 1926—Continued TYPHUS FEVER

	TYPHUS	PEVE	K	
Place	Date	Cases	Deaths	Remarks
Algeria:	george-type of singly-jugge cité de mic. Armin à assette tombé		Andrew Index Joseph	
AlgiersArgentina:	Nov. 1- Dec. 20	2	******	
Rosario Bulgaria	Oct. 13-Dec. 31 September-Oc-	2 26	······································	
SofiaDo	tober. Dec. 25-31	$\frac{1}{2}$		
Chile: Valparaiso	Jan. 8-14 Nov, 29-Jan. 2	2	2	
China:	Nov. 29-Dec. 27	5	1	
Antung Do	Jnn. 4-10	ï		
Hongkong Manchuria	Dec. 27-Jan. 2	1		
HarbinCzechoslovakia	Dec. 17-23 October, 1925	8		
Egypt: Alexandria	Jan. 8-14			
Cairo	Nov. 5-11	$\tilde{2}$	2	
Port SaidFinland	Nov. 19-25	1		October, 1925: 1 case.
Franco	July-October	4		
Germany	Oct. 25-31	1		
Athens	Nov. 1-30 Dec. 29-Jan. 4	11	2	
Saloniki Ireland:	Dec. 28-van. 4	1		
Cork County— Cork	Dec. 26-Jan. 1	2		
D0	Jan. 2-8	l õ		
Dumanway	Nov. 14	1		
Galway County	Oct. 17.	I		}
Latvia	October, 1925	2		
Lithuania				September-October, 1925: Cases 9; deaths, 1.
Mexico				July-September, 1925: Deaths
Aguascalientes	Dec. 14-19	1		90.
Durango	Dec. 1-31		1	
Do	Jan. 1-31		1	
Guadalajara Mexico City	Dec. 8-Jan. 4	::::	3	
Do	Nov. 22-Dec. 26 Dec. 27-Feb. 6	145 39		Including nunicipalities in Fed-
	1.	1	1	eral District.
Tampico	Dec. 21-Jan. 10 November, 1925		i	
Vera Cruz	Feb. 12		î	
Morocco Palestine:	Feb. 12 August, 1925	3		
Gaza	Dec. 18	1		
Jaffa Nazareth	1 Dec. 1-7	1		
Nazaretn	Nov. 3-9 Nov. 24-30	1		
Safad Tel-Aviv	190v. 21-30	1		
Peru:		1 -		
Arequipa	October-December		8	
Poland	Oct. 11-Nov. 14	142	16	
Rumania				July, 1925: Cases, 74; deaths, 9 May-June, 1925: Cases, 10,680
Russia			~~~~~	Later than previously pub-
		1		lished reports.
Do	*************			July-August, 1925; Cases, 3,136
Union of South Africa				October, 1925: Cuses, 88; denths.
1				July-August, 1925: Cases, 3,136, October, 1925: Cases, 88; deaths, 7 (colored). Cases, European, 7. December, 1925: Cases, 78; deaths, 9. Colored: Cases, 73;
	1	1		deaths, 9.
Cape Province Do Do	Oct. 1-31	63	5	Colored.
Do	Nov. 8-Dec. 31	47	8	
D0.	Jan. 3-9			Outbreaks.
Middleburg district	Dec. 6-12	1 1		European. On farm.
NS(8)	Oct. 1-Dec. 5 Jan. 3-9	1	*******	
Durban.				Outbreaks.

Reports Received from December 26, 1925, to March 5, 1925—Continued TYPHUS FEVER—Continued

Place	Date	Cases	Deaths	Remarks
Union of South Africa—Con, Orange Free State, Do Bethulia district Bothaville district Transvani Do Bloemhof district	Dec. 1-31. Dec. 6-12dodo Oct. 1-31 Dec. 1-31	1 18	1 1	Outbreaks. Native. On farm. Outbreaks. On farm.
	YELLOW	FEVE	R	
Gold Coart	SeptemberAugust-Septem- ber.	1 2	1 1	

TREASURY DEPARTMENT

PUBLIC HEALTH REPORTS

ISSUED WEEKLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

VOLUME 41 :: :: NUMBER 12 MARCH 19 - - 1926

== SPECIAL ARTICLES ====

International Conference on Biological Standardization of Remedies

Reports of the Health Section of the League of Nations



WASHINGTON GOVERNMENT PRINTING OFFICE 1926

UNITED STATES PUBLIC HEALTH SERVICE

HUGH S. CUMMING, Surgeon General

DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg. Gen. B. J. LLOYD, Chief of Division

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They contain: (1) Current information of the prevalence and geographic distribution of preventable diseases in the United States in so far as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other communicable diseases throughout the world. (2) Articles relating to the cause, prevention, or control of disease. (3) Other pertinent information regarding sanitation and the conservation of the public health.

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PUBLIC HEALTH REPORTS

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THE SECOND INTERNATIONAL CONFERENCE ON THE BIO-LOGICAL STANDARDIZATION OF CERTAIN REMEDIES

It is obvious that the usefulness of any medicinal remedy depends in large measure upon accurate dosage and uniformity in composition. If the remedies can be obtained in chemically pure form it is a simple matter to set up official chemical and physical standards to insure uniformity in composition and, hence, a reasonable constancy of therapeutic action. However, there exist a number of important remedies which, for some reason or other, can not be obtained in chemically pure form. Some of the remedies belonging to this class are highly potent. An overdose may be followed by serious symptoms and even death, whereas an insufficient dose may not produce the desired therapeutic action. Insulin, pituitrin, digitalis, arsphenamine and its substitutes, ergot, thyroid, etc., may be mentioned in this connection. It is therefore very important that methods of standardization should be developed which will permit the sale of these remedies in such form as to insure (1) constancy of therapeutic potency. (2) freedom from toxic impurities, and (3) elimination of fraudulent preparations.

In the case of the above-mentioned remedies, chemical and physical tests have either completely failed or are only of limited value. It is for this reason that a great deal of work has been carried out during the last 20 years to develop biological methods of assay. This work was carried out in different laboratories in different countries without any sufficient attempt at coordination, and, what is even more important, without effective control of the methods proposed. The result was that some of these remedies were sold to physicians with the claim of having been biologically standardized, though examination of the various products on the market often revealed enormous differences in potency. To mention only one example, it was found that the potency of pituitrin from various commercial sources varied as much as 800 per cent. It is not surprising that, under these conditions, this powerful remedy was used by physicians with more or less reluctance.

In order to remedy this situation the Health Committee of the League of Nations called a conference in July, 1923, at Edinburgh, of some expert pharmacologists and physiologists. This conference critically reviewed the then existing methods and organized some

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cooperative work which was effectively carried out in various countries under the leadership of Dr. H. H. Dale of the National Institute of Medical Research of England.

The Second International Conference was convened in August, 1925, at Geneva. This conference discussed the work accomplished during the two preceding years and arrived, by unanimous consent, at the conclusions which are given below. These resolutions were adopted by the International Conference for the Unification of Formulas for Heroic Remedies held in Brussels in September, 1925. It is anticipated that these resolutions will be used by the various national pharmacopæial revision committees for the purpose of insuring national and international uniformity in potency of these important remedies.

Pituitary Extract

- "The Conference recommends:
- "1. That the dry (acctone) extracted substance of the fresh posterior lobe of the pituitary gland, which was recommended by Professor Voegtlin to the Edinburgh Conference as suitable for adoption as a standard of activity for pituitary extracts, and which has since been adopted as the standard for this purpose in the United States Pharmacopæia, Edition X, be now definitely accepted as the International Standard.
- "2. That, since the evidence before the Conference indicates that, by strict adhesion to the instructions for its preparation, as given in the United States Pharmacopæia, Edition X, a sample of this powder of standard strength can be prepared at any time and in any country, the authority responsible for biological standardization, in each country concerned, should prepare such quantities of the standard as are needed for distribution in its own country. That Professor Voegtlin be requested to furnish, on behalf of the Health Organisation of the League of Nations, a small sample of the standard, as originally prepared for examination by the Edinburgh Conference, to any authority which may need it for confirmation of its own national standard.
- "3. That it be recommended to the authorities responsible in the different countries for the pharmacopæias that a dry preparation of the pituitary posterior lobe, prepared in exact accordance with the method indicated for preparing the standard powder, should be included in each pharmacopæia, to serve as the official raw material for the preparation of the official watery extract.
- "4. That in order to ensure the stability of the liquid extract prepared from such a powder, the hydrogen-ion concentration should be adjusted to within the limits represented by pH 4 and pH 5. The extract should be sterilised and sealed in ampules of non-alkaline resistant glass.

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- "5. That the pharmacopæial dried preparation and the extracts prepared therefrom should be biologically assayed in comparison with the standard, the extracts from the standard powder, and from the pharmacopæial dried preparation, being prepared for biological comparison according to the method indicated in the United States Pharmacopæia, Edition X. For the purpose of the biological assay, the test on the isolated uterus of the virgin guinea-pig, as described in the United States Pharmacopæia, Edition X, is recommended, as giving the most accurately quantitative results, among the available methods. As additional methods, may be recognised the test for pressor activity on the anaesthetised dog or the decapitated cat, and the test for antidiuretic action on the unanaesthetised dog.
- "6. That in making the assay by the action on the guinea-pig's uterus, it is recommended that a test for non-specific, stimulant activity on that organ should be applied. This can be done by treating the extract under examination with normal NaOH for one hour at the ordinary temperature (20° C.), neutralising to litmus paper, and re-testing. Not more than 5 per cent of the activity on the uterus should survive this treatment.
- "7. That the strength of all pituitary extracts should be expressed in units of activity, the activity corresponding to 0.5 milligramme of the standard powder being defined as one unit, so that, for example, the official liquid extract of the United States Pharmacopæia, Edition X, would contain 10 international units of activity per cubic centimetre."

Insulin

"It is recommended:

- "1. That the dry preparation of insulin hydrochloride, prepared by the Medical Research Council of Great Britain, at the request of the Edinburgh Conference, should be accepted as the international standard preparation of insulin. That 1 milligramme of this standard contains 8 units of insulin (or 1 unit=0.125 milligramme), as provisionally defined by the Insulin Committee of the University of Toronto.
- "2. That this standard preparation be kept, on behalf of the Health Organisation of the League of Nations, by the Medical Research Council, who will undertake to test the permanence of its potency from time to time.
- "3. That samples of this preparation, weighing 0.100 gramme each, be sent to some responsible organisation in each country (such as an Insulin Committee or a Government institution) who will undertake further distribution to testing laboratories. In those countries in which no suitable organization for this purpose exists, samples of the standard will be distributed by the Medical Research Council after consultation with the Insulin Committee of the Univer-

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sity of Toronto, or, in case this Committee be discontinued, with one appointed by the Health Committee of the League of Nations.

- "4. That each testing laboratory should prepare a standard of its own, and should compare the potency of this with the sample of the international standard placed in its hands for this purpose. When the latter is exhausted, further comparisons with the international standard should, where possible, be undertaken by the responsible authority for the particular country.
- "5. That either of the following methods be considered as suitable for the bio-assay of insulin:

"(A) METHODS DEPENDING ON THE EFFECT ON BLOOD-SUGAR

First method.—Varying quantities of insulin that are less than the convulsive dose are injected subcutaneously into rabbits of about two kilogrammes body-weight, from which food has been withheld for 18–24 hours, and the average of the blood-sugar percentages over a period of five hours after the injection is subtracted from the blood-sugar percentage immediately preceding the injection. The number of units of insulin present in each cubic centimetre of the preparation is then calculated by use of a formula. Each rabbit used in the assays is tested at suitable intervals with a standard preparation which is periodically compared with the international standard.

"Second method.—Alternatively, one-half of a series of rabbits receives, in each case, an injection of ½ unit of the standard preparation per kilogramme, and the other half receives, on the same day, the dose supposed to be equivalent of the sample under test. The percentage fall of the blood-sugar content over a period of five hours is determined as above. A few days later the determinations are repeated on the same series of rabbits in this way, that the rabbits previously receiving the standard preparation now receive that under test and vice versa.

"From the relation between the falls of blood-sugar content produced, on the one hand, by the standard preparation, and on the other hand by the sample under test, the true activity of the latter in units per cubic centimetre can be calculated.

"(b) method depending on the incidence of symptoms in white mice

"The assay is carried out by comparison with a standard preparation injected simultaneously with the unknown sample on an equal number of mice from a common stock. The onset of convulsions or collapse is used as the end point of the reaction and a mouse dose is the quantity producing convulsions (or collapse) in half the number of mice injected. During the test the mice are kept in an incubator at a uniform temperature of not less than 30° C. 509 March 19, 1926

- "6. That the Conference appoint a sub-committee, which shall submit recommendations with regard to the permissible content of organic solid matter per unit in preparations of insulin and with regard to tests for the stability of such preparations.
- "7. That, in future, the term 'unit of insulin' or 'insulin unit' should only be used in the sense indicated above."

Digitalis

"The Conference recommends:

- "1. That, as an international standard, a dry powdered preparation of the leaves of Digitalis purpurea shall be made by Professor Magnus, on behalf of the Health Organisation of the League of Nations, of the same strength $(\pm 10\%)$ as the experimental standard powder, prepared in accordance with the decision of the First International Conference on Biological Standardisation (Edinburgh 1923), and forming the basis of the various reports presented to this Con-This standard shall be prepared by the mixture of ten different powders, made from leaves properly dried at 55-60° C., shall be adjusted by biological assays, carried out by Professor Magnus (who will use the method of assay on cats), and shall be distributed for international use. The permanence of its activity shall be annually controlled by Professor Magnus. If it should deteriorate, or if the supply should be nearly exhausted, a new standard preparation shall be prepared by the same method, and of exactly equal activity.
- "The preparation shall be distributed in sealed ampules of brown glass. These shall be placed at the disposal of the different countries, for the assay of their own national standard preparations.
- "2. That, according to present knowledge, no particular method of extraction (infusion, cold alcohol, warm alcohol) can be recommended as the only correct one. It is necessary, however, for the purpose of assay, that the preparation to be tested and the standard preparation shall be extracted by the same method.
- "3. As methods of biological assay, the following can at present be recommended as sufficiently accurate:
- "(1) THE FROG METHOD, WITH A PERIOD OF OBSERVATION OF AT LEAST 4 HOURS
- "A. Preparation of an extract of digitalis leaves with absolute alcohol.—One gramme of digitalis leaves, coarsely powdered (B. 20 = mesh of about 0.75 mm.) and dried to constant weight over sulphuric acid, is allowed to stand for 24 hours at room temperature with 25 c. c. of absolute alcohol, with occasional shaking in a closed spherical flask of about 100 c. c. content. The mixture is then boiled for 30 minutes with a reflux condenser, on a sandbath over the smallest

possible flame, and, while still hot, is filtered through a plain filter of about 9 cm. diameter. The residue is washed with absolute alcohol on the filter until filtrate becomes colourless. The combined filtrates are slowly evaporated in a thin-walled, tared watch-glass, on a boiling water bath to 5 c. c. (about 4.5 grammes), the drying of any portion being earefully avoided.

"The concentrated extract, while still hot, is transferred with the aid of distilled water to a graduated flask, and made up to 25 c. c. with distilled water. By this procedure one obtains an emulsiform, greenish solution in weak, watery alcohol. This must be used immediately for the test.

"B. Assay of the extract, obtained as described under (a), on frogs, by determination of the minimal lethal dose by the so-called unlimited-time method.—For the test only healthy male frogs must be used (grass frogs, Rana temporaria or Rana pipiens), kept under constant conditions and weighing up to 40 grammes each. The body weight of the frogs, kept for several hours in the laboratory in a moist glass case, is determined immediately before the injection to an accuracy of 0.5 gramme, after drying the skin and expressing the urine.

"The extract prepared as above described is injected into frogs, through the mouth, into the breast lymph-sac, with a syringe graduated in hundredths of a c. c. Larger quantities than 0.3 c. c., or with weakly active preparations 0.5 c. c., should not be injected into the breast lymph sac; if necessary, the injections are to be made, in such cases, also into one or both of the lymph-sacs of the thighs.

"The following signs of intoxication appear: Within ½ to 2 hours after the injection, restlessness, air-hunger, formation of froth, paralysis and, in the course of four hours, stoppage of the heart. The criterion for the determination is that the stoppage is either systolic or rapidly transformed into systole.

"The orientating tests are carried out as follows: Doses differing by 20 per cent per gramme of frog are injected, one or two frogs being used for each dose.

"The final determination can be made by the following procedure:

"The mean between the smallest active and the greatest inactive dose is the first approximation. By further more exact determination, with four to six frogs on each dose, the final value can be obtained with an accuracy of 10 per cent. The determination is completed when, of two doses differing by 10 per cent, the higher kills a majority of frogs injected, the lower a smaller number.

"The value is expressed as a percentage of the standard preparation, which is tested at the same time and in the same manner. Only such leaves shall be passed for issue as differ from the standard preparation by not more than 25 per cent. 511 March 19, 1926

"The assay of digitalis tinctures is made in the following manner: "10 c. c. of the official tincture (=1 gramme of leaves) are concentrated on the water bath at temperatures not above 60° C. to 5 c. c. volume, washed into a measuring flask with distilled water, and made up to 25 c. c. The assay is made according to the same method as described above for digitalis leaves.

"(2) THE CAT METHOD, AS MODIFIED BY MAGNUS FROM THAT OF HATCHER

"For biological standardisation on the cat the ½ per cent infusion of the digitalis leaves is used, prepared according to the indications of the Dutch Pharmacopæia, and then made isotonic by the addition of NaCl; in preparing this infusion, the temperature of 90° C. is not to be exceeded, and the extraction is to be continued for 15 minutes after this temperature has been attained. Cats are used with a body weight between 1.7 and 2.7 kilogrammes. anaesthetised with ether, a tracheal canula is inserted and, with the help of artificial respiration, a moderate anaesthesia with ether is maintained. The infusion runs at a regular rate from a graduated burette, arranged as a Mariotte's bottle, through a wide canula into the femoral vein. The rate of infusion is so adjusted that the duration of the experiment amounts to about forty minutes; minimum 30 minutes, maximum 55 minutes. If, as a result of the first determination, it appears that the preparation is especially potent, the infusion is suitably diluted, and the first experiment is not included in the calculation.

"The dose is determined which is necessary to produce stoppage of the heart; this is recognised by inspection and palpation of the thorax, by the asphyxial convulsions, and often also by the interrupted flow of the fluid into the vein; it is further confirmed by opening the chest. If the animal is found to be ill (pneumonia) or pregnant, the result obtained with it is rejected.

"In this manner one determines the lethal dose of the 0.5 per cent infusion on n cats and continues the determination until the mean percentage deviation of the single results, from the mean value of the whole series, is smaller than 6.67 $\sqrt{n-1}$. The average of the volumes infused per kilogramme of animal gives the true 'assay value' of the preparation. The lethal dose of the digitalis powder, in milligrammes per kilogramme of cat, is obtained by multiplying this number by 5. The number of lethal cat-doses contained in 1 gramme of digitalis powder is obtained by dividing 200 by the assay value.

"For the assay of digitalis tinctures, these are diluted 20 times with physiological salt solution.

- "An exact description of the method, and details of the method of calculation, has been published by Dr. C. de Lind van Wyngaarden (Dè betrouwbaarheid van physiologische ijkingen, uitgewerkt voor Digitalis, Proefschrift, Utrecht, 1925).
- "4. Other digitalis preparations and strophanthus tinctures can be assayed by corresponding methods, using as a standard for strophanthus tinctures (i. strophanthin (ouabaïn), as recommended by the first Conference on biological standardisation (Edinburgh 1923).
- "5. That no definite conclusions can be based on the clinical reports presented to the Conference, concerning the activity of the three digitalis powders which were distributed for comparison. It is necessary that these important observations should be continued on a very large number of cases by different methods.
- "6. That the methods of biological assay presented to the Conference, other than those above recommended for acceptance, should be the subject of further co-ordinated investigations."

Arsphenamine

- "The Conference recommends:
- "I. That the internationally recognised biological standardisation of remedies of the arsenobenzene group should be made with a series of standard preparations, one for each of the compounds in question.
- "II. That the following are the remedies which at present should be the subject of internationally recognised standardisation:
- "1. Dioxydiamino-arsenobenzene dihydrochloride (syn. salvarsan, arsphenamine, arsenobenzol, etc.); and
 - "2, its metallic derivatives (silver-salvarsan); and
 - "3. Its sodium salt (sodium salvarsan);
- "4. Dioxydiamino-arsenobenzene sulphoxylate of sodium (syn. neosalvarsan, neoarsphenamine, novarsenobenzol, etc.);
 - "5. Neosilver-salvarsan;
 - "6. Sulpharsphenamine (syn. sulfarsenol).
- "III. That Professor Kolle of the Georg-Speyer Haus, Frankfurt on M., be requested to accept the responsibility for preparing, maintaining and distributing the standard preparations (1) to (5) on behalf of the Health Organisation of the League of Nations, and that Professor Voegtlin, of the Hygienic Laboratory, Washington, be invited similarly to be responsible for the standard preparation of (6).
- "IV. That every batch of the remedies in question, before issue for therapeutic use on human patients, should be tested on normal animals for toxicity and on animals infected with a suitable strain of pathogenic trypanosomes (*T. brucei*, *T. equiperdum*, etc.) for therapeutic potency.

- "V. That samples from every batch should be tested for toxicity on at least 10 mice or 5 rats, or on both, material from several separate ampules of each batch being separately tested, and that only such preparations should be passed for issue as exhibit, under identical conditions of experiment, a toxicity not greater than that of the corresponding standard sample.
- "VI. That samples of each batch should be tested for the rapeutic potency on mice or rats infected with a suitable strain of pathogenic trypanosomes (*T. brucei*, *T. equiperdum*, etc.) in accordance with the following principles:
- "1. A series of mice or rats is to be taken, having the same degree of infection with the trypanosome employed, as determined by some method of enumeration per unit volume of blood.
- "2. That, on such a series of animals with a uniform degree of infection, each batch shall be tested for therapeutic action in several (e. g., 2-4) doses, with at least three animals on each dose, and the result shall be evaluated by comparison with the effects of the standard preparation, administered to animals of the same species, with the same degree of infection.
- "VII. That it is further recommended that, before a batch of one of the remedies in question is certified for general issue, samples of it shall have been used on a series of human patients, under the supervision of a qualified expert."

Thyroid Gland

- "The members of this Conference are of opinion:
- "1. That a biological method for the standardisation of thyroid gland substance is not necessary for routine application, the determination of the iodine in natural combination, as thyroid active principle, being a sufficient indication of the specific therapeutic activity. Where a biological method is needed, as, for example, for the detection of preparations which have been artificially enriched with iodide, they recommend the adoption of the aceto-nitrile test recommended by Professors Reid Hunt and Straub, as described in the publications of Doctors Haffner and Komiyama and Professor Reid Hunt. As a standard of activity, they recommend the activity of a dried preparation of healthy thyroid gland with a natural iodine content of 0.2 per cent.
- "2. That Professor Reid Hunt be invited to obtain and keep as an interntational standard on behalf of the Health Organization of the League of Nations a sufficient sample of dried thyroid gland substance corresponding to the above definition."

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Ergot

"The members of the Conference are of opinion:

"That the question of the biological standardisation of ergot is not yet ripe for final decision, and that it is desirable to give further study to the biological methods which have already been described, and to investigate those which may be discovered in the future, and especially to compare the results obtained by such methods with those obtained by the chemical method, presented to the Conference by Professor Straub."

Anthelmintics

The following resolution was unanimously adopted:

"That the recommendation adopted at the Edinburgh Conference be reaffirmed, with the necessary alterations to include the use of fish in addition to earthworms in the test, the recommendation, in the form of a pharmacopæial direction, being modified to read as follows:

"'Extractum filicis maris aethereum: Earthworms of medium size, or small fish (Carassius, Gobio, Scardinius) 5-10 cm. in length, when placed in 100 c. c. of a 0.002 per cent watery solution of the extract, shall be killed, but shall survive in lower concentrations of the extract.

"'Rhizoma filicis maris: A 0.002 per cent watery solution of the official ethereal extract, prepared from the dried drug, shall be the minimal lethal concentration for earthworms, and also for small fish (Carassius, Gobio, Scardinius) 5-10 cm. in length."

"That the method of testing oil of chenopodium on earthworms put forward by Professor Knaffl-Lenz may be provisionally adopted as probably furnishing a useful indication as to the relative anthelmintic activities of different samples of this oil, but that further investigation of the method is desirable and that, in particular, an effort should be made to compare the results obtained with the test on earthworms with the practical anthelmintic properties of a series of samples of the oil of chenopodium."

Vitamins

- "1. That, in the opinion of this Conference, it is of great importance that the preparations used in therapeutics to supply vitamins to the patient should be standardised as accurately as possible, each for its content of its characteristic vitamin or vitamins.
- "2. That the preparation for which such standardisation appears at present to be most important and most practicable is cod-liver oil, vitamin A (growth-promoting factor) being the constituent of this oil which can be most accurately assayed.
- "3. That the general question of the accuracy and usefulness of methods for the standardisation of all vitamins could be more suitably considered by a special conference of experts, appointed for the purpose.

"4. That this Conference should limit its present activity to the initiation of a comparative test, designed to determine the accuracy and specificity of the colour-reaction for vitamin Λ , recently described by Drummond and Rosenheim.

"5. That, for the purpose of this investigation, the Conference invite Professor Poulsson, Professor Voegtlin, and Doctor Dale to act as a Sub-Committee."

CURRENT WORLD PREVALENCE OF DISEASE

REVIEW OF THE MONTHLY EPIDEMIOLOGICAL REPORT ISSUED JANUARY 15, 1926, BY THE HEALTH SECTION OF THE LEAGUE OF NATIONS' SECRETARIAT.

A marked rise in the general mortality during the month of December in cities in England and Wales, in Paris, and in several other large cities in Europe was noted in the January Epidemiological Report published by the Health Section of the League of Nations' secretariat. The maximum mortality seems to have occurred in the middle of December, coincidently with an increase in deaths from both respiratory and heart diseases. In the German and Scandinavian cities, the seasonal increase in mortality reported in December did not exceed that for December, 1924. The weekly mortality in some of the principal European cities is given in the table below.

Weekly mortality (all causes) in certain European cities from November 15, to December 26, 1925, compared with the mortality in corresponding weeks in 1924

Week ended—	105 Er eit	nglish ies	Glas	gow		erman iles	War	rsaw	Par	-is ^t
	1924	1925	1924	1925	1924	1925	1924	1925	1924	1925
Nov. 21 Nov. 28 Dec. 5 Dec. 12 Dec. 19 Dec. 26	12.1 11.8 12.0 12.1 12.6 11.8	13 8 14.8 16.3 17.9 16.4 13.7	16. 9 16. 2 15. 1 15. 2 15. 7 17. 0	18. 5 21. 7 21. 7 22. 4 20. 4 18. 7	11.4 11.7 11.6 11.4 11.5	10. 5 11. 4 11. 0 12. 4	15. 0 15. 5 13. 0 12. 6 15. 3	13. 5 14 3 15. 0 15. 1	14. 4 15. 3 14. 5 17. 6 16. 1	14. 1 15. 3 17. 1 19. 9

¹ Paris reports are for 10-day periods, from Nov. 11 to Dec. 31.

The mortality both in the English cities and in Paris, though higher than at any time during the preceding winter, did not reach the level reported in January, 1924.

In the United States the average death rate for 68 large cities for December did not exceed that for December, 1924, but during January and February the weekly death rates rose very sharply. It appears likely that the peak was reached in the week ended February 20, in which the average mortality for the 68 cities was 16.4 per 1,000. Although this rate is higher than that for any week in 1924 or 1925, it is considerably lower than the mortality recorded in February,

¹ From the Statistical Office, U. S. Public Health Service.

1923, when the rate was over 18 per 1,000. A comparison of the weekly rates during January and February with those in the same period last year is given in the accompanying table for a few of the larger cities showing a marked increase in recent weeks.

Weekly mortality per 1,000 (all causes) in 68 cities in the United States and in certain selected cities in January and February, 1928, compared with 1925

					·		-					-		
Week ended-	68 c	ities	Balti	more	Cinci	nnati	Dot	roit		ew eans	S: Ant	n onio	Wasi ton, l	hing- D. Ü.
	1925	1926	1925	1926	1925	1926	1925	1926	1925	1926	1925	1926	1925	1926
Jan. 9 Jan. 16 Jan. 23 Jan. 30 Feb. 6 Feb. 13 Feb. 20 Feb. 27	14. 6 14. 2 14. 2 14. 2 14. 4 14. 2 14. 5 13. 9	15. 6 14. 9 14. 9 14. 5 15. 2 14. 8 16. 4 16. 0	20. 0 18. 0 17. 0 17. 2 16. 7 17. 5 16 8 16. 1	17. 7 20. 2 18. 5 21. 7 22. 2 24. 7 23. 0 19. 7	17. 1 17. 6 18. 3 16. 8 16. 8 16. 7 16. 7 14. 1	21. 5 18. 9 17. 5 15. 4 20. 8 19. 2 19. 5 15. 3	10. 9 10. 6 10. 6 10. 4 11. 4 11. 7 12. 1 12. 1	13. 1 13. 9 14. 6 11. 9 13. 1 13. 6 14. 4 15. 5	18. 1 22. 8 20. 4 20. 3 20. 8 26. 0 26. 4 22. 1	22. 8 22. 8 22. 8 26. 8 27. 7 36. 5 29. 4 24. 8	18. 2 22. 1 18. 2 15. 0 16. 3 14. 5 15. 0 15. 8	14. 7 15. 8 20. 3 18. 2 20. 8 22. 4 21. 1 22. 4	13, 3 13, 9 14, 7 16, 0 15, 0 15, 7 16, 7 10, 4	18. 6 20. 3 19. 0 15. 2 19. 7 17. 4 24. 8 23. 6

Some cities in each section of the country have experienced an increase in mortality. While data relating to cause are not yet available for all of the eight weeks' period covered in the foregoing table, reports from States and other sources point definitely to increases in pneumonia mortality and a rather marked increase in cases of influenza, grippe, and severe colds. The data available for January show an excess of deaths from influenza and pneumonia in some cities.

Plague.—Only eight of the 39 Asiatic ports reporting to the Singapore Bureau reported plague during the eight weeks ended January 16. The cases reported by the eight ports are given below.

Plaque cases reported by eight Asiatic ports to the Singapore Bureau, November 22, 1925, to January 16, 1926

Porf				Week e	nded-			4
Karachi ¹ Bombay ¹ Colombo Rangoon ² Slizgapore	1	Dec. 5	Der. 12	Dec, 19	0 0 0 0 0 3	Jan. 2	Jan. 9 0 2 0 3 2	Jan. 16 0 0 1 5
Surahaya Makassar Bangkok	0 0 2	0 2 1	0 3 0	0 1 0	1 1 0	0 0 0	0 1 1	2 1 1

¹ Deaths only reported.

Deaths from plague reported in the whole of India during the four weeks ended November 14 numbered 3,259, less than half the number reported in the corresponding period of 1924. The Bombay Presidency and Mysore were the only Provinces showing a greater prevalence than during the preceding year, and these two Provinces reported more than half the total number of cases.

In Java the plague incidence seems to have reached its maximum about the end of September as compared with December in the preceding year.

Deaths from plague in Java, July 19 to November 11, 1925, compared with 1924, by four-week periods

Four-week period 1924	Total deaths	Four-week period 1925	Total deaths
July 15-Aug. 11 Aug. 12-Sept. 8 Sept. 9-Oct. 6 Oct. 7-Nov. 3 Nov. 4-Dec. 1	704 844 1, 187 1, 369 1, 984	July 19-Aug 15. Aug. 16-Sept. 12. Sept. 13-Oct. 10. Oct. 11-Nov. 7.	795 1,331 1,403 1,174

Very little plague was reported in the Mediterranean area during December. Reports included one case at Beirut on December 6 and one at Patras on December 10. In the whole of Egypt only one case of plague, in the Province of Fayoum, was reported during December. No case was reported at Port Said from November 8 to the end of the year and none at Sucz after October 2.

In Kenya, 72 cases of plague were reported in November, and in Uganda 75 cases, in both instances approximately one-half the number of cases occurring in October. In Madagascar the plague incidence was increasing, there having been 177 cases reported in October, 232 in November, and 400 in December.

Cholera.—The only ports reporting cases of cholera during December and the first two weeks of January were Calcutta, Madras, Negapatam, Manila, and Bangkok. No case had been reported at Shanghai since the second week of November, and none in any Japanese port since the last week in November. In Bangkok, where the number of new cases declined after the week ended December 12, when 93 cases were reported, the number of cases averaged 28 per week in the three weeks ended January 16.

The cholera outbreak in Siam began in Bangkok early in October and spread to 8 of the 18 Provinces. It is the most extensive cholera outbreak in Siam since 1919.

Cholera cases and deaths reported in Siam, October to November, 1925

W	Krung	Deb 1	Other P	rovinces
Week ended	Cases Deaths		Cases	Deaths
Oct. 3 Oct. 10 Oct. 17 Oct. 24 Oct. 31 Nov. 7 Nov. 14 Nov. 21 Nov. 28	0 29 27 5 19 25 27 60 81	0 8 11 4 12 21 21 45 44	7 0 0 2 0 30 110 315 491	4 0 0 1 0 12 62 199 326

³ Includes Bangkok. ⁴8 of these cases were imported.

Cholera was less prevalent in India down to the middle of November than during the autumn of 1924. It was entirely absent during nearly the whole year in the central Provinces and Bombay Presidency, where it was epidemic the year before. The southern districts of Madras Presidency are heavily infected and the incidence of the disease rose rather sharply in Bengal from the middle of October. The total number of deaths reported in India in the four weeks ended November 14 was 3,847 compared with 6,304 in the corresponding period of 1924.

A severe outbreak of cholera was reported in the French settlement of Pondicherry, in India, with 880 cases and 712 deaths in the month of December.

Typhus fever.—A small outbreak of typhus fever occurred in eastern Czechoslovakia in November and December. There were 8 cases reported in October, 86 in November, and 52 in December; 10 of the cases occurred in Slovakia and the remainder in Subcarpathian Ruthenia. Only one death was reported.

In Poland the incidence of typhus fever began to increase in November, and 88 cases were reported in the two weeks ended November 14, compared with 37 in the preceding two weeks.

Smallpox.—The incidence of smallpox in England increased very markedly during November and December, and during the first week of 1926 there were reported 255 cases, "the highest number of smallpox cases for any week during more than 20 years." The cases were confined to the north of England and the type has been the usual mild variety occurring in England for some years.

Smallpox cases reported in England, by fortnightly periods, November 1, 1925, to January 9, 1926

Management (Autor 24) is a completely to the property of the completely and the completel	mada gygudybene na Ingostosu so	Fortnig	htly period	l ended—	ro, m. y sajora Breshippyk anthak
County	Nov. 14	Nov. 28	Dec. 12	Dec. 26	Jan, 9
Northumberland Durham Yorkshire: N. Riding E. Riding W. Riding Nottingham Derby	12 81 7 4 1 16 8	13 118 0 6 7 17	18 167 0 8 10 25 31	11 224 1 17 18 25 58	18 239 0 0 121 17 54
Total.	129	173	250	358	458

A few cases of smallpox were reported during November or December 1 y Switzerland, France, Italy, Greece, and Russia; but most European countries were apparently either entirely free from the disease or reported only sporadic cases. No information for Spain was received.

A recrudescence of smallpox occurred in December in the African countries bordering on the Mediterranean Sea. There were 441 cases in Algeria and 169 in Tunisia in December as against 140 and 79, respectively, in the preceding month. In Egypt 174 cases were reported during the four weeks ended December 23, compared with 62 cases in the preceding four weeks

In India, the smallpox incidence was increasing during October and the first half of November and reached a level higher than was reported at the corresponding season in any of the preceding four years. The increase was most marked in the Punjab and the Northwest Province, which were least affected by last spring's epidemic, and in Bengal and Bihar and Orissa.

The smallpox outbreak in Java and Madura declined rapidly, and only 353 cases were reported in the four weeks ended November 7 as against 917 in the preceding four weeks.

Enteric fever.—Fewer cases of enteric fever were reported during the last month of 1925 in all European countries than during the corresponding period of 1924. The report states:

It is probable that final returns for Europe as a whole will show less than half as many enteric fever eases during the fourth quarter of 1925 as during the corresponding quarter of 1924. It is to be hoped that this low incidence foreshadows a return of the former downward trend of the incidence of this disease, which has been arrested for a couple of years.

Dysentery.—Dysentery, as well as enteric fever, was less prevalent in Europe during the last months of 1925 than during the corresponding period of 1924. Reports for the principal European countries affected were as follows: 206 cases in Hungary in October 1925, as against 1,220 during the corresponding month of 1924; 29 cases in Czechoslovakia in November, as against 246 in the previous year; 92 for the same month in the Kingdom of the Serbs, Croats and Slovenes, as against 197; 42 cases and 2 deaths in Poland during the four weeks ended December 12, 1925, as against 327 cases and 64 deaths during the corresponding period of 1924.

Scarlet fever and diphtheria.—The incidence of scarlet fever diminished markedly in November and December in practically all European countries. The incidence of diphtheria in December showed no definite increase, but the course of the disease has not been so regular as that of scarlet fever.

Measles.—"There has been a marked increase in the number of measles cases in nearly all countries in the northern temperate belt for which information on this disease is available," says the report.

Cases of measles reported in various countries in 1924 and 1925

ths)	1925	63 165 419 419 956 11,178 11,178 550 331	ates s)	7, 481 10, 514 10, 514 10, 514 10, 520 10, 10, 520 11, 30, 148 11, 30, 120 12, 500 12, 500
Mexico (desths		2428355555 242834355 2428345 24355 24355 24355 24355 24355 24355 2435 243	United States (27 States)	20112848481128 20112841498481128
Mexi	1924	and to promount make of the Co.	Cai.	ଟିନ୍ୟର୍ଷେଟି, କିନ୍ଦ୍ର କରି କରି ବିଦ୍ କ୍ରିଟ୍ରି, କିନ୍ଦ୍ର କ୍ରିକ୍ କରି ବିଦ୍
aria	1925	ឧកក្រោងឥម្លប់ក្នុងខ្ល	deaths)	4455455455455
Algeria	1924	S88888951135	Egypt (deaths)	28 25 28 28 28 28 28 28 28 28 28 28 28 28 28
(total)	1925	64.822 64.822 64.822 64.822 87.337 7.337 117.123 113.120	eaths)	48464 # 45 # 45 # 45 # 45 # 45 # 45 # 45 #
Russia	1924	37, 510	Iraq (deaths)	8888888884 11885574
aria	1925	1.8.0.0.4.9. 2.8. 2.6.2.9.9. 2.9. 2.6.6.9.9. 4.6. 2.6.6.9.9. 4.6. 2.6.6.9. 4.6. 3.6.6. 4.6. 3.6.6. 4.6. 3.6.6. 4.6. 3.6.6. 4.6. 3.6.6. 4.6. 3.6. 4.6. 4.6. 3.6. 4.6. 4.6. 3.6. 4.6. 4.6. 3.6. 4.6. 4.6. 3.6. 4.6. 4.6. 4.6. 3.6. 4.6. 4.6. 4.6. 4.6. 4.6. 4.6. 4.6.	pu	2.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Bulgaria	1924	25.25.25.25.25.25.25.25.25.25.25.25.25.2	Poland	1, 1649 1, 1649 1, 1649 1, 1649 1, 1649 1, 1649 1, 1649 1, 1649
gary	1925	4 4 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ly.	8.94.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
Hungary	1924	1,1,1,1,8,2,1,4,8,1,4,1,4,1,4,1,4,1,4,1,4,1,4,1,4,1	Italy	0,40,0,40,44,44,40,40,40,40,40,40,40,40,
100	1925	28.00	rland	1, 033
France	1924	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Switzerland	288 288 288 288 288 288 288 288 288 288
lark	1925	1, 285 2, 2, 285 3, 046 3, 046	and (105 deaths)	252 252 253 252 252 254 254 254 255 255 255 255 255
Denmark	1924	68.88 4 4 68 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6	England (28 28 28 28 28 28 28 28 28 28 28 28 28 2
(cities)	1925	86388888888	rd (16 eaths)	58448554.004B
Narway (cities)	1924	66.53.868.83.858.88 1.1.53.868.83.858.888	Scotland (16 cirics, deaths)	\$5555888758 88 8
	Month	Jamuary February March M	Four-week period ended	Jan. 24 Feb. 21 Mar. 21 Mar. 21 Mar. 31 June 13 June 13 June 13 June 13 June 13 June 13 June 13 June 13 June 13 June 13 June 13

1 Without the Ukraine, etc.

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SILICOSIS: A RÉSUMÉ OF THE LITERATURE

As an aid to physicians in the State of New York in diagnosing cases of silicosis, Dr. Leland E. Cofer, director of the bureau of industrial hygiene of the New York State Department of Labor, has had prepared a special bulletin 2 in which is presented a résumé of the medical literature with special reference to diagnosis. As stated in the foreword, this pamphlet was issued in anticipation of legislation affording compensation to workers in industry suffering from silicosis and in view of the fact that unrecognized silicosis has undoubtedly caused deaths among industrial workers which have been attributed to other causes, such as fibroid phthisis, pulmonary tuberculosis, and bronchitis. The bulletin states:

Careful studies which have been made of the mortality reports of different countries and cities throughout the world show that the death rate from tuberculosis of the lungs greatly varies. Silicosis is not a well-known disease and has not, therefore, been entered on the death certificate as a cause of death, but rather, the terms, phthisis pulmonalis, fibroid phthisis or tuberculosis of the lungs have been used. The term "phthisis" is unfortunate, unscientific and, as the statistics show, has been misleading. The sooner it is expunged from the vocabulary of the physician the better it will be, not only for the value of the records, but also the workers in dust and the reputation of tuberculosis.

The appendix contains quotations from the literature, the aim being to give in detail only those references which are likely to be of assistance to the general practitioner.

The bulletin is available free to all physicians who apply for it. Requests should be addressed to the Director, Bureau of Industrial Hygiene, New York State Department of Labor, 124 East Twenty-eighth Street, New York City.

CALIFORNIA STATE BOARD OF HEALTH TO VACCINATE ALL STATE EMPLOYEES

The Weekly Bulletin for February 27, 1926, issued by the California State Board of Health, in calling attention to the occurrence of the severe type of smallpox in that State, notes that all employees of the State board of health have been instructed to be vaccinated immediately. The board has also made provision for vaccinating all other State employees who desire to be vaccinated.

From January 2 to February 20, 1926, the Bulletin states that there were reported to the State board of health 964 cases of small-pox, with 86 known deaths, indicating that the present type of disease is not the mild variety which has been more or less prevalent in the West for several years.

² Special bulletin; Silicosis—A Résumé of the Literature Arranged for the Use of the Physicians in the State of New York.

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ABSTRACT OF UNITED STATES SUPREME COURT DECISION RELATING TO BEDDING

Statutory provision prohibiting the use of shoddy in manufacture of bedding held violative of Federal Constitution.—(United States Supreme Court: Weaver v. The Palmer Bros. Co.; decided March 8, 1926.) One of the provisions of Act No. 314 of the Pennsylvania session laws of 1923, providing for the regulation of the manufacture, sterilization, and sale of bedding, prohibited the use of "shoddy," or any fabric or material from which "sheddy" is constructed, in the making, remaking, or renovating of any mattress, pillow, bolster, feather bed, comfortable, cushion, or article of upholstered furniture. In a suit brought by a Connecticut corporation which manufactured comfortables in that State and sold them there and in other States, the United States District Court for the Western District of Pennsylvania found that the statute infringed the corporation's constitutional rights in so far as it absolutely prohibited the use of shoddy in the manufacture of comfortables, and to that extent the court's decree restrained the enforcement of the statute. This decree was affirmed by the United States Supreme Court, and below are reproduced excerpts from that court's opinion:

Appellant claims that, in order properly to protect health, bedding materials should be sterilized. The record shows that, for the sterilization of secondhand materials from which it makes shoddy, appellee uses effective steam sterilizers. There is no controversy between the parties as to whether shoddy may be rendered harmless by disinfection or sterilization. While it is sometimes made from filthy rags, and from other materials that have been exposed to infection, it stands undisputed that all dangers to health may be eliminated by appropriate treatment at low cost. In the course of its decision the District Court said, "It is conceded by all parties that shoddy may be rendered perfectly harmless by sterilization." The act itself impliedly determines that proper sterilization is practicable and effective. It permits the use of secondhand materials and new and secondhand feathers when sterilized, and it regulates processes for such sterilization.

There was no evidence that any sickness or disease was ever caused by the use of shoddy. And the record contains persuasive evidence and by citation discloses the opinions of scientists eminent in fields related to public health that the transmission of disease-producing bacteria is almost entirely by immediate contact with, or close proximity to, infected persons; that such bacteria perish rapidly when separated from human or animal organisms; and that there is no probability that such bacteria or vermin likely to carry them survive after the period usually required for the gathering of the materials, the production of shoddy, and the manufacture and the shipping of comfortables. This evidence tends strongly to show that in the absence of sterilization or disinfection there would be little, if any, danger to the health of the users of comfortables filled with shoddy, new or secondhand; and confirms the conclusion that all danger from the use of shoddy may be eliminated by sterilization. * * *

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* * Here, it is established that sterilization eliminates the dangers, if any, from the use of shoddy. As against that fact, the provision in question can not be sustained as a measure to protect health. And the fact that the act permits the use of numerous materials, prescribing sterilization if they are second-hand, also serves to show that the prohibition of the use of shoddy, new or old, even when sterilized, is unreasonable and arbitrary.

Nor can such prohibition be sustained as a measure to prevent deception. In order to ascertain whether the materials used and the finished articles conform to its requirements, the act expressly provides for inspection of the places where such articles are made, sold or kept for sale. Every article of bedding is required to bear a tag showing the materials used for filling and giving the names and addresses of makers and vendors, and bearing the word "secondhand" where there has been prior use, and giving the number of the permit for sterilizing and disinfecting where secondhand materials or feathers are used for filling. Obviously, these regulations or others that are adequate may be effectively applied to shoddy-filled articles.

The constitutional guaranties may not be made to yield to mere convenience. Schlesinger v. Wisconsin, decided March 1, 1926, — U. S.—. The business here involved is legitimate and useful; and, while it is subject to all reasonable regulation, the absolute prohibition of the use of shoddy in the manufacture of comfortables is purely arbitrary and violates the due process clause of the fourteenth amendment. Adams v. Tanner, 244 U. S. 590, 596; Meyer v. Nebraska, 262 U. S. 390; Burns Baking Co. v. Bryan, 264 U. S. 504.

DEATHS DURING WEEK ENDED MARCH 6, 1926

Summary of information received by telegraph from industrial insurance companies for week ended March 6, 1926, and corresponding week of 1925. (From the Weekly Health Index, March 9, 1926, issued by the Bureau of the Census, Department of Commerce)

Number of death claims	Week ended Mar. 6, 1926	Corresponding week 1925
Policies in force	63, 525, 389	58, 897, 864
Number of death claims	14, 676	12, 497
Death claims per 1,000 policies in force, annual rate.	12. 0	11. 1

Deaths from all causes in certain large cities of the United States during the week ended March 6, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, March 9, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week en	ded Mar. 926	Annual death		under 1 ear	Infant mortality
City	Total deaths	Death rate ¹	rate per 1,000 cor- respond- ing week 1925	Week ended Mar. 6, 1926	Corresponding week, 1925	rate, week ended Mar. 6, 1926 2
Total (68 cities)	8, 965	16. 2	14. 6	1, 028	965	3 84
Akron Albany 4 Atlanta White Colored Baltumora 4 White Colored Birmingham White Colored Boston Bridgeport Buffalo Cambridge Camden Canton Chicago 4 Cincinnati Cleveland Columbus Dallas White Colored Denver Des Moines Detroit Duluth El Paso Erie Fall River 4 Filit Fort Worth White Colored Grand Rapids Houston White Colored Corand Columbus Colored Jacksonville, Fla	8, 965 46 511 29 258 194 194 1153 57 274 43 149 38 66 66 60 20 93 33 365 16 803 365 365 37 37 218 803 366 803 37 218 803 803 803 803 803 803 803 803 803 80	16. 2 22. 6 (9) 16 9 27 0 (9) 18. 3 14. 4 10 6 26. 8 7. 9 14. 0 16. 2 12. 1 17. 3 16. 2 17. 3 11. 5 15. 3 5. 2 17. 0 11. 1 8. 0 12. 0 (5) 10. 2 21. 8	14. 6 17. 7 16. 9 18. 9 16. 5 18. 9 16. 0 18. 7 15. 4 11. 1 12. 17. 2 17. 2 18. 9 15. 4 15. 6 16. 9 16. 9 17. 10 18.	7 2 6 6 2 4 4 4 4 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7	965 7 4 4 8 8 35 6 20 9 8 4 115 7 20 11 8 8 3 8 3 4 4 14	74 42 67 61 97 88 87 66 101 120 120 120 131 67 145 66 145 66
White. Colored. Jersey City. Kansas City, Kans. White. Colored. Ransas City, Mo. Los Angeles. Louisville. White. Colored. Lyun. Memphis. White. Colored. Miwaukee. Minneapolis. Nashville White. Colored. Miwaukee. Minneapolis. Nashville White Colored. New Bedford. New Haven. New Orleans. White. Colored. New Haven. New Orleans. White. Colored. New Orleans. White. Colored. New Orleans. White. Colored.	21 95 28 204 204 85 25 26 26 27 27 31 31 41 11 63 41 11 63 63 63 63 63 64 11 64 64 65 66 66 67 67 68 68 68 68 68 68 68 68 68 68 68 68 68	(5) 15. 7 13. 0 (7) 14. 0 15. 0 (8) 12. 3 13. 2 23. 6 (9) 12. 1 10. 9 24. 1 (9) 10. 5 12. 2 21. 1 (9)	14. 1 21. 1 17. 7 18. 5 18. 0 14. 2 21. 2 14. 4 15. 6 21. 8 14. 0 12. 8 18. 4	0 4 11 1 2 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1	16 26 9 9 10 7 8 19 19 7 7	0 220 78 52 21 263 44 60 40 188 93 60 45 45

Footnotes at end of table.

Deaths from all causes in certain large cities of the United States during the weck ended March 6, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925—Continued

And the second s		ded Mar. 1926	Annual death		under 1	Infant
City	Total deaths	Death rate 1	rate per 1,000 cor- respond- ing week 1925	Week ended Mar. 6, 1926	C'orre- sponding week, 1925	mortality rate, week ended Mar. 6, 1926 ¹
New York Bronx Borough Brooklyn Borough Manbattan Borough Queens Borough Richmond Borough Newark, N.J. Norfolk White Colored Oakland Oklahoma City Omaha Paterson Phitadelphia Pittsburgh Portland, Oreg Providence Richmond White Colored Rochester St. Lonis St. Paul Salt Lake ('ity' San Antonio San Praneisco Schenectady Beattle Springfield, Mass Syracuse Tacoma Toledo.	36 10 10 26 52 63 870 217 63 73 73 73 30 122 237 65 33 64 35 67 67 36 36 37 38 38 43 38 43 43 43 43 43 43 43 43 43 43	16. 4 14. 6 15. 0 20. 6 11. 3 19. 2 16. 1 10. 3 22. 2 29. 17. 9 11. 6 12. 3 20. 4 20. 1 15. 0 13. 8 13. 1 16. 8 17. 2 18. 1 19. 0 19	13. 6 10. 2 12. 0 17. 9 8. 4 20. 0 13. 5 9. 0 13. 5 9. 0 13. 5 13. 1 13. 8 14. 4 12. 7 14. 6 15. 7 14. 6 16. 11. 9 16. 3 19. 7 11. 8 12. 9	201 15 79 87 18 87 18 20 6 6 8 8 11 14 14 19 11 12 14 16 17 18 19 11 16 16 16 17 18 18 18 18 18 18 18 18 18 18	155 156 56 56 72 8 4 10 3 8 15 14 8 9 6 6 12 18 8 1 16 55 14 4 55 6 6 6 6 6 6 6 6 6 6 7 8	81 50 80 96 82 35 96 112 0 298 98 70 125 110 51 58 63 20 140 112 55 55 110 112 112 112 112 112 112 112
Trenton Utien Washington, D. C. White Colored Waterbury Wilmington, Del. Worcester	57 34 194 115 79 34 76 63	22. 5 17. 4 20. 3 (5) 32. 5 17. 2	17. 4 15. 4 18. 7 14. 5 17. 8	3 5 10 5 5 5 10 8	9 1 23 5 6	50 110 57 41 91 215 188
Yonkers Youngstown	29	13, 3 13, 0	8. 7 13. 4	5 3	0	112

¹ Annual rate per 1,000 population.
2 Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.
3 Data for 63 cities.
4 Deaths for week ended Friday, Mar. 5, 1926.
4 In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansus City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmoud 32, and Washington, D. C., 25.

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

Reports for Week Ended March 13, 1926

ALABAMA	Cases	CALIFORNIA	Cases
Cerebrospinal meningitis	_ 2	Cerebrospinal meningitis-Fresno	1
Chicken pox.		Chicken pox.	
Diphtheria		Diphtheria.	
Influenza	1.922	Influenza	
Lethargic encephalitis		Lethargic encephalite—Sacramento	
Malaria		Measles	
Measles		Mumps	
Mumps		Poliomyelitis:	
Ophthalmia neonatorum		Long Beach	. 1
Pellagra		Palo Alto.	
Pneumonia		Scarlet fever	
Poliomyelitis		Smallpox:	
Scarlet fever	23	Los Angeles	. 57
Smallpox		Oakland	
Tuberculosis		Sonoma County	45
Typhoid fever		Scattering	
Whooping cough		Typhoid fever	. 3
is nooping cough,	_ 40	Whooping cough	65
ARIZONA		TYTIOOJIME COURTER COU	. 00
Chicken pox	- 40	COLORADO	
Diphtheria		Chicken por	. 56
Influenza		Conjunctivitis (epidemie)	3
Malta fever		Diplitherin	24
Mumps		German measles	
Pneumonia		Influenza	. 6
Scarlet fever		Measles	. 85
		Mumps	
Trachoma.		Pneumonia.	•
Tuberculosis.	. 30	Scarlet fever	
ARKANSAS		Septic sore throat	
Chicken pox	. 17	Tuberculosis	. 46
Diphtheria		Typhoid fever	29
Influenza	284	Whooping cough	78
Malaria	. 8	TO MOODING COMMITTERS AND AND AND AND AND AND AND AND AND AND	. 10
Measles.	5	CONNECTICUT	
Mumps		Cerebrospinal meningitis	. 1
Pellagra	2	Chicken pox.	
Scarlet fever		Conjunctivitis (infectious)	
Smallpox	3	Diphtheria.	
Trachoma	. 7	German measles	
Tuberculosis	. 3	Influenza	. 99

CONNECTICUT—continued	Cases	IDAHO—continued	Cases
Measles		Mumps	
Mumps	31	Rocky Mountain spotted fever—Boise	1
Pneumonia (broncho)	102	Scarlet fever	9
Pneumonia (lobar)	91	Smallpox	
Poliomychtis		Whooping cough	
Scarlet fever			
Septie sore throat		ILLINOIS	
		Cerebrospinal meningitis:	
Tuberculosis (all forms)			
Whooping cough	117	Cook County	
		De Kalb County	
DELAWARE		Logan County	
Cerebrospinal meningitis	1	Diphtheria	66
= "		Influenza	521
Chicken pox	_	Lethargic encephalitis:	
Diphtheria		Cook county	1
Influenza		Effingham County	1
Measles	106		
Pneumonia	3	Fayette County	
Scabies	1	Measles	
Scarlet fever	8	Pneumonia	
Tuberculosis		Poliomyelitis—Stark County	. 1
Whooping cough	-	Scarlet tever	536
W nooping congressions	U	Smallpox	22
FLORIDA		Tuberculosis	
		Typhoid fever	
Cerebrospinal meningitis			
Chicken pox	33	Whooping cough	223
Diphtheria	9	INDIANA	
Influenza			
Malaria		Cerebrospinal meningitis	. 3
Measles		Chicken pox	
Mumps	-	Diphtheria	. 31
•		Influenza	. 374
Pneumonia		Measles.	
Scarlet fever		Mumps	
Smallpox	. 152		
Tuberculosis	. 12	Pneumonia	
Typhoid fever	. 3	Scarlet fever	
Whooping cough		Smallpox	. 80
11 mooning voug		Tuberculosis	_ 68
GEORGIA		Typhoid fever	. 2
		Whooping cough	112
Cerebrospinal meningitis			
Chicken pox		IOWA	
Conjunctivitis (acute)		Chieken pov	
Diphtheria	. 10	Diphtheria	. 18
Dysentery		German measles	_ 54
Hookworm disease		Measles	102
Influenza		Mumps	
Malaria		Pneumonia	
		Scarlet lever	
Measles			
Mumps		Smallpox	
Pellagra		Tuberculosis	
Pneumonia	. 128	Whooping cough	. 20
Scarlet fever	. ხ	KANSAS	
Septic sore throat	. 5	Chicken por.	. 74
Smallpox		Diphtheria	
Tetanus			_
Tuberculosis		German measles	
		Influenza	_
Typhoid fever		Measles	
Whooping cough	. 38	Mumps	
		Pneumona	
ID AHO		Scarlet fever	
Cerebrospinal meningitis:		Smallpox:	
Coeur d'Alene	. 1	Salina	_ 1:
Post Falls		Scattering.	
Chicken pox		Tuberculosis	. 4
Diphtheria		Typhoid fever	
Influenza		Vincent's angina	
Monsies	. 2	Whooping cough	. 11

Diphtheria	LOUISIANA	Cases	MASSACHUSETTS—continued	Case
Diphtheria 1	W-0	i		110
Legwery				2
Malaria				
Prenumonia		_		52
Samilpox Samilpox				
Smallpox				
Tuberculosis				8 04
Typhoid fever. 3 Scarlet fever. Smallpox. Sm				40
MAINE				37
Maine				01
Chicken pox	Whooping congressions			5
Chicken pox			('	
German messles.				27
Influenza				
Measles			MINNESOTA	
Mumps			Cerebrospinal meningitis	
Paratyphoid fever				16
Preumonia				5
Messis		39		00
Taberculosis		21		23
Vincent's angina	Tuberculosis			45
Tuberculosis		-		40
Typhoid fever. Typh	Vincent's angina		1 -	4
Carebrospinal meningitis 2 2 2 2 2 2 2 2 2	Whooping cough	49	•	•
Carebrospinal meningitis 2 Chicken pox 106	MARYLAND 1			4
Chicken pox		o		
Diphtheria			MISSISSIPPI	
Dysectery			Diphtheria	
German measles				1, 23
Influenza				
Malaria		273		1
Measles 878 Mumps 78 Pneumonia (boroncho) 90 Pneumonia (lobar) 85 Scarlet fever 41 Septic sore throat 1 Tuberculosis 67 Typhoid fever 2 Whooping cough 61 Polionyelitis Polionyelitis Rabies (in animals) Scarlet fevor Smallpox Trachoma Cerebrospinal meningitis 1 Chicken pox 217 Conjunctivitis (suppurative) 28 Diphtheria 57 German measles 266 Hookworm disease 1 Influenza 65 Lethargic encephalitis 2 Malaria 1 Paeumonia (lobar) 161 Pieumonia (lobar) 161 Polionyelitis 1 Scarlet fever 24 Septic sore throat 3 Septic sore throat 3 Septic sore throat 3 Trachoma 1 Tuberculosis <td>Lethargic encephalitis</td> <td>1</td> <td>Typnoid fever</td> <td></td>	Lethargic encephalitis	1	Typnoid fever	
Mumps		1	MISSOURI	
Theumonia (broncho) 90 Pneumonia (lobar) 85 Scarlet fever 41 Septic sore throat 1 Tuberculosis 67 Typhoid fever 2 Whooping cough 61 NASSACHUSETTS 67 Cerebrospinal meningitis 1 Chicken pox 217 Conjunctivitis (suppurative) 8 Diphtheria 57 German measles 2266 Hookworm disease 1 Influenza 65 Lethargic encephalitis 1 Measles 1 Measles 1 Measles 1 Measles 1 Measles 1 Montana 65 Mumps Ophthalmia neonatorum 1 Poliomyelitis (suppurative) 8 Trachoma 7 Chicken pox 7 Chicken pox 8 Whooping cough 1 Montana 65 Chicken pox 9 Chicken pox 9 Whooping cough 1 Montana 65 Chicken pox 1 Diphtheria 65 Mumps 115 Measles 1 Measles 1 Poliomyelitis 1 Scarlet fever 8 Septic sore throat 8 Septic sore throat 8 Septic sore throat 8 Septic sore throat 8 Tuberculosis 7 Tuberculosis 7 Tuberculosis 7 Tuberculosis 9 Tuberc			Corobrospinal moningitie	
Preumonia (lobar)				(
Scarlet fever 41 Septic sore throat 1 Tuberculosis 67 Typhoid fever 2 Whooping cough 61 NASSACHUSETTS 61 Cerebrospinal meningitis 1 Chicken pox 217 Conjunctivitis (suppurative) 8 Diphtheria 57 German measles 266 Hookworm disease 1 Influenza 65 Lethargic encephalitis 2 Malaria 1 Masales 1, 283 Mumps 115 Ophthalma neonatorum 24 Preumonia (lobar) 161 Poliomyelitis 1 Septic sore throat 25 Septic sore throat 25 Trachoma 1 Tuberculosis 7 Typhoid fever 8 Whooping cough 1 Montana 65 Lethargic encephalitis 2 Chicken pox 66 Mumps 115 Ophthalma neonatorum 24 Preumonia (lobar) 161 Poliomyelitis 1 Septic sore throat 3 Typhoid fever 8 Mumps 115 Chicken pox 1 Diphtheria 6 German measles 1 Measles 1 Measles 1 Septic sore throat 5 Septic sore throat 5 Smallpox 7 Tuberculosis 7				
Septic sore throat 1 Tubereulosis 67 Typhold fever 2 Whooping cough 61 Cerebrospinal meningitis 1 Chicken pox 2 Conjunctivitis (suppurative) 8 Diphtheria 57 German measles 266 Hookworm disease 1 Influenza 65 Lethargic encephalitis 2 Measles 1, 283 Mumps 115 Ophthalmia neonatorum 24 Paeumonia (lobar) 161 Poliomyelitis 1 Scarlet fever 8 Cerebrospinal meningitis 7 Tuberculosis 7 Trachoma 1 Measles 1, 283 Mumps 15 Chicken pox 65 Lethargic encephalitis 2 Paeumonia (lobar) 161 Poliomyelitis 1 Scarlet fever 251 Septic sore throat 3 Tuberculosis 7 Tuberculosis 1 Scarlet fever 8 Smallpox 7 Tuberculosis 7 Typhoid fever 9 Whooping cough 1 Measles 1 Mumps 6 Chicken pox 6 Influenza 6 German measles 1 Influenza 6 Mumps 7 Scarlet fever 8 Smallpox 7 Tuberculosis 7 Tuberculo	Pheumonia (lobar)			4
Tuberculosis 67 Typhoid fever 22 Whooping cough 61 MASSACHUSETTS 61 Cerebrospinal meningitis 1 Chicken pox 217 Conjunctivitis (suppurative) 8 Diphtherin 57 German measles 266 Hookworm disease 1 Influenza 65 Lethargic encephalitis 2 Chicken pox Malaria 1 Measles 1, 283 Mumps 115 Ophthalmia neonatorum 24 Pelionyelitis (Same animals) Scarlet fevor Smallpox Trachoma Tuberculosis Tuberculosis Chicken pox Montana Chicken pox Montana Chicken pox Montana 1 Chicken	Sentie sere threat			54
Typhoid fever. 2 Whooping cough 61 NASSACHUSETTS Cerebrospinal meningitis 1 Chicken pox 217 Conjunctivitis (suppurative) 8 Diphtherin 57 German measles 266 Hookworm disease 1 Influenza 65 Lethargic encephalitis 2 Malaria 1, 283 Mumps 115 Ophthalmia neonatorum 24 Peliomyelitis (Rabies (in animals). Scarlet fever. Whooping cough 1 MONTANA Chicken pox 1 Diphtheria 6 German measles 1 Diphtheria 6 German measles 1 Measles 1, 283 Mumps 115 Ophthalmia neonatorum 24 Pagumonia (Jobar) 161 Poliomyelitis 1 Scarlet fever 251 Septic sore throat 3 Tetanus 2 Trachoma 1 Whooping cough 1			Mumps	3
Whooping cough	Typhoid fever	2		
Rabies (in animals). Searlet fever. Smallpox. Trachomat. Tuberculosis. Typhoid fever. Whooping cough MONTANA Chicken pox. Conjunctivitis (suppurative). Samallpox. Trachomat. Tuberculosis. Typhoid fever. Whooping cough MONTANA Chicken pox. Diphtheria. Septic sore throat Septic sore throat Septic sore throat Septic sore throat Tuberculosis. Typhoid fever. Whooping cough MONTANA Chicken pox. Diphtheria. German measles. Influenza. Influenza. Measles. Mumps. Jib Ophthalmia neonatorum Jet Scarlet fever. Septic sore throat Septic sore throat Septic sore throat Trachoma. Trachoma.	Whooping cough	61		1
Cerebrospinal meningitis 1 Chicken pox 217 Conjunctivitis (suppurative) 8 Diphtheria 57 German mensles 266 Hookworm disease 1 Influenza 65 Lethargic encephalitis 2 Malaria 1 Measles 1,283 Mumps 115 Ophthalmia neonatorum 24 Paeumonia (Iobar) 161 Poliomyelitis 1 Scarlet fevor Smallpox Trachoma 1 Chicken pox Whooping cough MONTANA Chicken pox Montana Montana 1 Diphtheria German measles German measles Mumps 24 Measles 1,283 Mumps 155 Ophthalmia neonatorum 24 Scarlet fevor Smallpox Tuphoid fever Whooping cough Montana 1 Scarlet fevor Smallpox Tuphoid fever Whooping cough Montana 1 Scarlet fevor Smallpox Tuphoid fever Whooping cough Montana 1 Scarlet fevor Smallpox Tuphoid fever Whooping cough Smallpox Tuphorculosis Tuphorculosis Tuphorculosis Tuphorculosis Whooping cough				
Cereprospinal meningitis. 1 Chicken pox. 217 Conjunctivitis (suppurative) 8 Diphtheria 57 German mensles. 266 Hookworm disease 1 Influenza 65 Lethargic encephalitis 2 Malaria 1 Mesales 1,283 Mumps 115 Ophthalmia neonatorum 24 Paeumonia (Iobar) 161 Poliomyelitis 1 Scarlet fever 251 Septic sore throat 3 Trachoma 1 Tuberculosis Tryphoid fover Whooping cough Montana Chicken pox Montana Montana Montana Montana Montana Montana Montana Montana Montana Montana Montana Mesales 1,283 German measles. Influenza Mesales Mumps Scarlet fever 5 Septic sore throat 5 Septic sore throat 5 Smallpox Tuberculosis Trachoma 1 Whooping cough				
Chicken pox	Cerebrospinal meningitis.	1		
Conjunctivitis (suppurative) 8 Diphtheria. 57 German measles 266 Hookworm disease 11 Influenza 65 Lethargic encephalitis 2 Malaria 1 Diphtheria 1 Measles 1,283 Mumps 115 Ophthalmia neonatorum 24 Prieumonia (Iobar) 161 Poliomyelitis 1 Scarlet fever 251 Scarlet fever 251 Septic sore throat 3 Tretanus 2 Tuberculosis 1 Tuberculosis Typhoid fever Whooping cough 1 Montana Mont	Chicken pox	217		
Diphtherin	Conjunctivitis (suppurative)	8		
German measles	Diphtheria	57		
Influenza	German measies	266		
Lethargic encephalitis 2 Chicken pox. Malaria 1 Diphtheria Messles 1, 283 German measles. Mumps 115 Influenza. Ophthalmia neonatorum 24 Measles Paeumonia (lobar) 161 Mumps Poliomyelitis 1 Scarlet fover Scarlet fever 251 Septic sore throat Septic sore throat 3 Smallpox Tetanus 2 Tuberculosis Trachoma 1 Whooping cough	HOOKWOFM QISCASC	1	MONTANA	
Malaria 1 Diphtheria Measles 1, 283 German measles Mumps 115 Influenza Ophthalmia neonatorum 24 Measles Paeumonia (lobar) 161 Mumps Poliomyelitis 1 Soarlet fever Septic sore throat 3 Smallpox Tetanus 2 Tuberculosis Trachoma 1 Whooping cough	Latharofe anganholitis			
Measles 1, 283 German measles Mumps 115 Influenza Ophthalmia neonatorum 24 Measles Pneumonia (lobar) 161 Mumps Poliomyelitis 1 Scarlet fever Scarlet fever 251 Saptic sore throat Septic sore throat 3 Smallpox Tetanus 2 Tuberculosis Trachoma 1 Whooping cough	Walaria	. 2	Thirbit haria	. :
Mumps 115 Influenza Ophthalmia neonatorum 24 Measles Pneumonia (lobar) 161 Mumps Poliomyelitis 1 Scarlet fever Scarlet fever 251 Septic sore throat Septic sore throat 3 Smallpox Tetanus 2 Tuberculosis Trachoma 1 Whooping cough	Measles	1.282		
Ophthalmia neonatorum 24 Measles Pneumonia (nobar) 161 Mumps. Poliomyelitis 1 Scarlet fever Scarlet fever 251 Septic sore throat Septic sore throat 3 Smallpox Tetanus 2 Tuberculosis Trachoma 1 Whooping cough	Mumps	115		
Pagumonia (lobar)	Ophthalmia neonatorum	. 24		
Poliomyelitis	Pneumonia (lobar)	161		
Scarlet fever	Poliomyelitis	. 1		
Septic sore throat 3 Smallpox Tetanus 2 Tuberculosis Trachoma 1 Whooping cough	Scarlet fever	251	Septic sore throat	
Tetanus 2 Tuberculosis Trachoma 1 Whooping cough	Septic sore throat	. 3	Smallpox	
Trachoma 1 Whooping cough	Tetanus	. 2	Tuberculosis	1
1 Wiek ended Friday.		. 1	Whooping cough	

¹ Week ended Friday.

NEBRASKA	Cases	NORTH CAROLINA	Cases
Cerebrospinal meningitis	. 1	Cerebrospinal meningitis	1
Chicken pox		Chicken pox.	216
Diphtheria		Diphtheria	22
Measles		German measles	222
Mumps		Measles	259
Pneumonia		Scarlet fever	27
Scarlet fever		Smallpoy	37
Smallpox		Typhoid fever	1
Tuberculosis.		Whooping cough	143
Typhoid fever		-	
Whooping cough	-	OKLAHOMA	
mooping cought	. 0~	(Exclusive of Tulsa and Oklahoma City)	ı
NEW JERSEY		Chicken pox	22
Anthrax	. 2	Diphtheria	15
Cerebi ospinal meningitis	-	Influenza	1,846
* *		Malaria	33
Chicken pox		Measles	38
Diphtheria		Mumps	6
Influenza		Pollagra	5
Measles	-	Pneumoma.	184
Pneumonia		Scarlet fever	36
Poliom yelifas		Smallpox.	15
Scarlet fever		Typhoid fever	2
Tracho.na		Whooping cough	23
Typhoid fever			
Whooping cough	. 106	OREGON	
		Cerebrospinal meningitis.	2
NEW MEXICO		Chicken pov.	29
Chicken por	_ 10	Diphtheria	25
Conjunctivitis	_ 10	Influenza	199
Diphtheria	_ 8	Measles	20
German measles	_ 2	Mumps	19
Influenza	_ 21	Pneumonia	24
Measles	_ 1	Scarlet fever	22
Mumps.	_ 7	Smallpox	20
Pneumonia		Tuberculosis	6
Rabies (in animals)		Typhoid fever	i
Scarlet fever		Whooping cough	
Smallpox		17 Million Complete C	20
Tuberculosis		PENNSYLVANIA	
Typhoid fever		AnthraxPhiladelphia	1
Whooping cough		Cerebrospinal menungitis:	
	-	Manheim Township 3	1
NEW YORK		Philadelpbia	2
		Pittsburgh	
(Exclusive of New York City)		Plymouth	
Anthrax	_ 1	Chicken pox	-
Chicken pox		Diphtheria.	170
Diphtheria		German mousles.	
German measles.	-	Impetigo contaglasa	
Influenza		Malaria	4
Lethargic encephalitis		Measles	
· · · · · · · · · · · · · · · · · · ·		Mumps.	
Measles		Ophthalmia neonatorum—Philadelphia	1
Mumps	_ 215	Pneumonia.	155
Ophthalmia neonatorum			
Pneumonia		Scabies	16
Poliomyelitis		Scarlet fever	529
Scarlet fever		Trachoma:	_
Septic sore throat		McKees Rocks	
Smallpox		Philadelphia	
Typhoid fever	_ 14	Tuberculosis	
Vincent's angina		Typhoid fever	. 39
Whooping cough	- 507	Whooping cough	433
Deaths,		³ County not specified.	

RHODE ISLAND	Cases	VERMONT	Cases
	5	Chicken pox	
Chicken pox	4	Influenza	
German measles	6	Measles	
Influenza		Mumps	
Measles	269	Scarlet fever	
Mumps	1	Typhoid fever	
Pneumonia		Whooping cough	39
Scarlet fever			
Tuberculosis		WASHINGTON	
Whooping cough	19	Cerebrospinal meningitis:	
SOUTH DAKOTA		Seattle	. 5
Chicken pox	. 23	Snohomish County	
Diphtheria		Spokane	
Measles.		Stevens County	
Mumps		Yakima County	
Pneumonia		Chicken pox	
Scarlet fever		Diphtheria	
Septic sore throat		German measles	24
Smallpox		Influenza	
Tuberculosis		Measles	
Typhoid fever		Mumps	
Whooping cough		Pneumonia	
TENNESSEE		Scarlet fever	55
Anthrax—Franklin County	. 1	Smallpox:	
Cerebrospinal meningitis-Gibson County_		Tacoma	35
Chicken pox		Yakima County	11
Diphtheria		Scattering	48
Dysentery	2	Tuberculosis	69
Influenza	646	Typhoid fever	2
Malaria	. 7	Whooping cough	46
Measles	410	TITLIGH TITLIGHT	
Mumps		WEST VIRGINIA	
Pellagra		Diphtheria	7
Pneumonia		Measles	138
Scarlet fever		Scarlet fever	14
Smallpox		Smallpox	4
Tuberculosis			
Typhoid fever	. 2	WISCONSIN	
Whooping cough	- 9	Milwaukee:	
TEXAS		Cerebrospinal meningitis	1
Chicken pox		Chicken pox	
Diphtheria.		Diphtheria German measles	10 5
Influenza		Influenza	1
Monsles		Measles	87
Mumps Pneumonia		Mumps	57
Scarlet fever		Ophthalmia neonatorum	1
Smallpox		Pneumonia.	28
Tuberculosis		Scarlet fever.	22
Typhoid fever		Tuberculosis	14
Whooping cough		Typhoid fever	1
		Whooping cough	44
HATT		Scattering:	
Cerebrospinal meningitis:		Chicken pox	110
Ogden	. 1	Diphtheria	25
Salt Lake City		German measles	25
Chicken pox		Influenza	114
Diphtheria		Measles	402
Influenza		Mumps	147
Measies		Pneumonia	25
Mumps		Scarlet fever	121
Pneumonia		Smallpox	12
Smallpox Ornhoid force		Tuberculosis	20
Typhoid fever		Typhoid fever	6
TO ACCOUNT COURT	62	Whooping cough	128

WYOMING	Cases	WYOMING—continued Cases
Chicken por		Pneumonia 6
German measles		Scarlet fever 17
Influenza		Typhoid fever 1
Measles	- 1	Whooping cough
Mumps	_ 8 1	
Reports for W	eek E	nded March 6, 1926
•		•
Chiefran	Cases	IOWA Cases Cerebrospinal meningitis 4
Chicken pox	•	
Conjunctivitis (infectious)	•	Chicken pov. 75
Diphtheria	-	Diphtheria 14
German measles	-	German measles 62
Influenza		Measles 89
Lethargic encephalitis	_	Mumps 83
Measles		Pneumonia 19
Mumps		Rabies
Pneumonia (broncho)		Scarlet fever
Pneumonia (lobar)		Smallpox
Scarlet fever		Tetanus 1
Tuberculosis (all forms)		Tuberculosis
Typhoid fever		W hooping cough 14
Whooping cough	. 88	NORTH DAKOTA
DISTRICT OF COLUMBIA		Chieken pox. 29
Chicken pox	31	Diphtheria 13
Diphtheria		German measles 129
Influenza		Influenza 27
Lethargic encephalitis		Measles 30
Measles		Mumps
Pneumonia		Pneumonia
Poliomyelitis.		Scarlet fever 89
Scarlet fever		Smallpox. 10
Tuberculosis	28	Tuberculosis 8
Whooping cough		Whooping cough
· •		
Report for We	ek Enc	led February 27, 1926
NORTH DAKOTA	Cases	NORTH DAKOTA -continued Cases
Chieken pox	38	Poliomyelitis 7
Diphtheria.		Scarlet fever. 132
German measles		Smallpox
Influenza		Tuberculosis
Measles		Typhoid fever
Mumps		Whooping cough
Pneumonia	37	тт колоргоор в Маран напонинальна по выпонинальным ий
SUMMARY OF MON	THLY	REPORTS FROM STATES
The following summary of monthly State which reports are received during the current	reports i nt week:	s published weekly and covers only those States from

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Cere- bro- spinal monin- gitis	Diph- theria	Influ- enza	Ma- lacia	Men- sles	Pel- lagra	Polio- mye- htis	Scarlet lever	Sinall- pox	Ty- phoid fever
January, 1926 Arkansas. California. Colorado. Georgia. Virginia. February, 1926	1 29 1 3 9	24 437 106 83 228	710 3, 224 8 1, 414 3, 809	74 0 59 39	3 218 40 171 933	14 4 7 0	0 7 1 1	31 729 143 59 396	13 442 1 71 92	19 50 8 49 22
Arizona Connecticut: Indiana Vermont Wisconsin	0 1 1 0 10	20 183 144 7 236	220 54 358 177	0 0	2, 591 4, 953 56 1, 280	Ů O	0 1 7 0 2	45 331 1,056 83 712	3 0 410 0 44	2 11 14 3 16

LEPROSY ON VESSEL

On February 24, 1926, a case of leprosy was discovered at San Francisco quarantine station in a steerage passenger from Honolulu. The patient is being returned to the Hawaiian Islands.

PNEUMONIA (ALL FORMS) AND INFLUENZA

Deaths reported in large cities of the United States during three-week periods ended March 7, 1925, and March 6, 1926

PNEUMONIA (ALL FORMS)

	MONIA	(1122	Week e	nded-		***************************************
	Feb. 21, 1925	Feb. 20, 1926	Feb. 28, 1925	Feb. 27, 1926	Mar. 7, 1925	Mar. 6, 1926
Atlanta	24 51	34 70	18 50	22 63	12 48	9
Baltimore	13	14	16	63 17	9	21
Birmingham Boston	49	28	53	28	41	39
Bridgeport	2	8	5	7	6	
Ruffalo	16	22	22 11	18	17	********
Buffalo Cambridge, Mass	, 3	1	11	1	10	3 22
Camden	19 0	13	5 3	9	9 5	22
('anion	5 97	107	96	91	117	127
Chicago Cincinnati Cleveland	10	11	0.0	iò	13	32
Claveland	35	27	27	30	22	36
Columbus	8	7	9 7	4	12	1
Dallas	18	24 15		13	5	16
Denver	9	15	19	31	6	13
Detroit	43	69	42	68 2	45	77
Duluth	1 5	2	5 5	*	2	
Elizabeth El Paso	6	3	4	4	â	
Erie	3	3 2 3 5 14	4	4 3 1 5 8 2 5	4 3 0 3	1 6
Fall River	. 6	3	1 5	1	6	1.
Flint	.) 1	5	6	5	3	
Fort Worth Grand Rapids	. 6		4 6	8	3 2	1
Grand Rapids	9	1 7	0	2 5	13	1
Hartford	12	25	10	15	15	,,
Houston	30	15	22	21	29	2
Kansas City, Mo	30 20 31	13	22 31 27		19	
Los Angeles	31	35	27	26 7	27	20
		9	16	7	13	13
Lowell	_(3		5 7		5	
Lynn	10	1	8	19	13	
Minnerale	1 19	21 11	10	3	12	10
Memphis Minneapolis Nashville New Bedford	5	1 10	3	ő	1 5	1 1
New Bedford	3 7	10 2	9	5	10	1
New Haven	. 1	3	6	3	3	!
New Orleans	_ 25	29	23 195	19 356	10	11
New York Newark	227 16	348	193	19	233 17	36
Norfolk		1 49	1 6	18	1 5	*********
Oakland		7 3	L	. ă	1 4	
Oklahoma City	_ 2	4	3	2	3	
Omaha	_ 10	10	9	10	10	10
Philadelphia	93	125	58	100	79	210
Pittsburgh	- 50 9	38 13	46 11	35	38	4
Providence	12	8	14	111	14	1
Donding	-		14 2 14	1 2	1	
Richmond	_ 5	30	14	17	8	1 1
Wochesher	-) 0		7	14	8	1 2
St Dani	_1 6	8	7	8	10 38 99 35 77 29 18 4	1
Salt Lake City	- ×		3 8	8	1 3	1 -
San Diago	- 8 9 7	28	6	5	8	1
San Antonio San Diego San Francisco San Francisco	13		5	10	3	1
SCHEHOCERALY	.1 0	ĭ	4	5	5]
SomervilleSpringfield, Mass] 4	4	4	0	7	1
Springfield, Mass	. 3	1		- <u>0</u>	2	1
Syracuse Tacoma	7		12	6	9	1
Toledo	- 4	1 1		1 2	1	
Trenton	1 4	1 8	13	6 2 3 10	1 2	1 1
Washington		65	19	65	22	1 2
Waterbury] 8		4	65	2	
Waterbury Wilmington, Del Worcester	-	- 9		. 18	22 2 2 2	2
Wordster	- 3		2	8 3	2	1 3
Youngstown	- 6	6	10	1 8	11	l

Deaths reported in large cities of the United States during three-week periods ended March 7, 1925, and March 6, 1926—Continued

INFLUENZA

	Week ended-								
	Feb. 21, 1925	Feb. 20, 1926	Feb. 28, 1925	Feb. 27, 1925	Mar. 7, 1925	Mar. 6, 1926			
Atlanta Baltimore Birmingham	7 6	9 39 10	2 4	4 11 16	3- 2 10	3			
Boston Bridgeport Buffalo	4 1	i	248822	10 2 1	5				
Cambridge, Mass		3	2	3	1				
lanton Dicago Jinemnati	7 2	3 5	10 10 2	10 2	14 2 7				
Reveland Jolumbus Jollas Jonyer	7 2 4 2 2	3 1 8 10	2 2 3 1 2	1 1 12 8	7 1 7 2				
Oetroik Ouluth	4		6	4	Ğ				
Il Paso Ario Fall River	1 3	13 7 1	4	7 2 1	7 1				
Flint Port Worth Irand Rapids Fartlord	1	3	3 2	7	1 2				
Iouston ndianapolis Cansas City, Mo	1 1 9	4 1 5	6 16	7 2	2 3 15				
os Angeles oufsville owell	1	15	3 1	8	4				
ynn Aemphis Ainneapolis Fashville	1 4	8 1 8	6	8	5 1	****			
Ainneapolis Tashville Tew Bedford Tew Haven Tew Orleins	20	40	1 20	2 20 30	1 16	*****			
lew York Jewark Jorfolk	28	30	22	1	15	******			
akland Iklahoma City maha	1	3	2	6	1 2	******			
Philadelphia Pittsburgh Portland, Oreg Providence	9	14 4 3	9 3	35 6 2	4				
tending Lichmond Jochester & Paul	3	12		18	3°	,,,,			
t. Fatt	3	10 2	5	4 2 9	3				
an Francisco chenectady omerville	2	11	i	2	2 1				
pringfield, Massyracuseacoma	1		4	2	j	**** ***			
olodo renton Fashington	1 4	2 2 5	1 1	1 3 6	3 1 3				
Vaterbury Vilmington, DelVorcester	3	. I							
Coungstown					3				

PLAGUE ERADICATIVE MEASURES IN THE UNITED STATES

The following items were taken from the report of plague eradicative measures from Los Angeles, Calif.

Week ended Feb. 27, 1926:

Number of rats trapped	1, 912
Number of rats found to be plague infected	
Number of squirrels examined	
Number of squirrels found to be plague infected	
Number of mice trapped	
Number of mice found to be plague infected	
Date of discovery of last plague-infected rodent, Nov. 6, 1925.	
Date of last human case, Jan. 15, 1925.	

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended February 27, 1926, 36 States reported 1,333 cases of diphtheria. For the week ended February 28, 1925, the same States reported 1,591 cases of this disease. Ninety-seven cities, situated in all parts of the country and having an aggregate population of more than 29,400,000, reported 761 cases of diphtheria for the week ended February 27, 1926. Last year for the corresponding week they reported 907 cases. The estimated expectancy for these cities was 981 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-three States reported 17,810 cases of measles for the week ended February 27, 1926, and 3,447 cases of this disease for the week ended February 28, 1925. Ninety-seven cities reported 11,504 cases of measles for the week this year, and 1,940 cases last year.

Poliomyelitis.—The health officers of 37 States reported 23 cases of poliomyelitis for the week ended February 27, 1926. The same States reported 18 cases for the week ended February 28, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-six States—this year, 4,118 cases; last year, 5,068 cases; 97 cities—this year, 1,624 cases; last year, 2,080 cases; estimated expectancy, 1,198 cases.

Smallpox.—For the week ended February 27, 1926, 36 States reported 921 cases of smallpox. Last year for the corresponding week they reported 975 cases. Ninety-seven cities reported smallpox for the week as follows: 1926, 233 cases; 1925, 359 cases; estimated expectancy, 122 cases. Twelve deaths from smallpox were reported by these cities for the week this year—at Los Angeles, Calif.

Typhoid fever.—One hundred and forty-seven cases of typhoid fever were reported for the week ended February 27, 1926, by 35 States. For the corresponding week of 1925, the same States reported 228 cases of this disease. Ninety-seven cities reported 28

cases of typhoid fever for the week this year and 72 cases for the corresponding week last year. The estimated expectancy for these cities was 42 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 91 cities, with a population of more than 29,000,000, as follows: 1926, 1,712 deaths; 1925, 1,191.

City reports for week ended February 27, 1926

The "estimated expectancy" given for diphtheria, poliomyclitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimate expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the discusses given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

Military Military and a valid military and the second and the seco		61.1.	Diph	theria	ullaI	enza	24		
Division, State, and city	Population July 1, 1925, estimated	Chick- en poy, enses 10- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, enses 10- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine: Portland New Hampshire:	75, 333	7	2	0	1	0	3	5	3
Concord Manchester Vermont:	22, 546 83, 097	0	0	0 1	0	.0	8 8	0	3
Barre	10, 008 24, 089	0	0	0	0	0	0	0	1 0
BostonFull River Springfield Worcester	779, 620 128, 993 142, 065 190, 757	61 2 25 7	63 5 4 4	18 5 1 0	3 1 5 0	2 1 2 0	131 16 317 25	16 3 1 7	28 1 0 8
Rhode Island: Pawtucket Providence Connecticut:	69, 760 267, 918	ď	1 12	1 4	0 2	0	52 322	0	0 11
Bridgeport Hartford New Haven	(1) 160, 197 178, 927	0 8 14	9	9 2 8	1 0 0	1 0 2	19 0 33	0 0 3	7 5 3
MIDDLE ATLANTIC							[[
New York: Buffalo New York Rochester Syraeuse New Jersey:	538, 016 5, 873, 356 316, 786 182, 003	29 213 13 31	15 217 8 6	137 12 2	205 8 0	0 30 1 0	22 2, 811 69 61	1 42 1 49	18 356 14 6
Camden Newark Trenton Pennsylvania:	128, 642 452, 513 132, 020	16 85 7	18 4	5 8 1	2 20 3	3 1 3	22 455 5	0 12 1	9 19 10
Philadelphia Pittsburgh Reading	1, 979, 364 631, 563 112, 707	162 35 9	82 22 3	58 9 0	17	35 6 0	610 41 3	19 5 0	166 35

¹ No estimate made.

City reports for week ended February 27, 1926-Continued

			Dıplı	therm	Influ	ienza			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases 16- ported	Deaths re- ported	Measles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
EAST NORTH CENTRAL									
Ohio: Cincinnati	409, 333	14	9	10	1	2	2	0	10
Cleveland Columbus	936, 485	45	29	42	1	1	1, 125	3	30
Toledo	279, 836 287, 380	10 24	6	0 10	0	1	286 49	0	3
Indiana. Fort Wayne		12	1		. 0	0	2	0	3
indianapolis	97, 846 358, 819	22	3 9	1 10	0	2	1, 492	6	21
South Bend Terre Haute	80, 091 71, 071	7 4	1	3	0	0	1 1	0	5
Illinois: Chicago	2, 995, 239		107	62	1	10	l	14	94
Peoria	81, 564 63, 923	165 5	2	0	35 0	0	114 23	12	8 2
Springfield Michigan:	63,923	11	1	3	1	0	8	3	
Detroit	1, 245, 824 130, 316	43 17	56 6	46 2	4	4 0	1,332 14	13	68
Grand Rapids	153,698	20	3	5	0	ŏ	14	6	5 2
Wisconsin: Madison	46, 385	0	o	2	0	0	100	1	0
Milwaukee Racine	509, 192 67, 707	111	15 2	19 0	0	0	31	40	16 3
Superior	39,671	ŏ	õ	ŏ	ŏ	ŏ	ŏ	ö	3 0
WEST NORTH CENTRAL							l		
Minnesota: Duluth	110, 502	4	1	0	0	0	6	0	2
Minneapolis St. Paul	425, 435 246, 001	64 36	17 15	17 21	0	0	113	4 13	3 8
Iowa:	1		l	l		*	-	1	°
Davenport Des Moines	(1)	5 0	1 3	1 2	0		0 2	0	
Sioux City	(1) 36, 771	0 13	2	0	0		0	0	
Missouri: Kansas City	367, 481		8	•					
St. Joseph	78, 342	2	2	3	0	0	1	0	1
St. Louis North Dakota:	821, 543	42	43	67	2	1	51	3	
Fargo Grand Forks	26, 403 14, 811	2 5	0	0	0	0	0	10	0
South Dakota: Aberdeen		Į.							
Sioux Falls	15, 036 30, 127	9	0	0 0.	0	0	0	· 73	ō
Nebraska: Lincoln	60, 941	4	1	1	0	0	0	0	4
Omaha Kansas:	211, 768	27	5	2	ŏ	Ö	12	*****	10
Topeka	55, 411	9	1	2	0	2	21	0	5
Wichita	88, 367	5	3	1	0	2	60	2	4
Delaware:									
Wilmington Maryland:	122, 049	8	1	4	. 0	0	174	0	18
Baltimore Cumberland	796, 296 33, 741	78	27	9	171	11	1,037	182	63
r rederick	33, 741 12, 035	0	0	0	2 2	0	2 9	0	1
District of Columbia: Washington	497, 906	44	13	9	58	6	122	0	65
Virginia: Lynchburg	30, 395	16	1			1			
	(1)	29	1	0	0	0	19 2	4	7 8
Richmond Roanoke West Virginia:	186, 403 58, 208	8	3	6 2	0	18 0	14 63	2 3	17 2
Unarieston	49, 019	10	1	0	6		δ	0	
Huntington	63,485	0	1	0	0	0 2	8	Ó	2 2 1
NOTED Carolina:	56, 208	25	0	3	0	0	22	O	
Raleigh Wilmington	30, 371 37, 061	0 16	0	0	0	1 0	0	0	3 2 4
Winston-Salem	69,031	12	ŭΙ	ĩ		3	276	ĭ	ä

¹ No estimate made.

City reports for week ended February 27, 1926-Continued

			Dipht	heria	Influ	enza			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases ro- ported	Pneu- monia, deaths re- ported
SOUTH ATLANTIC—con.									
South Carolina: Charleston	73, 125 41, 225 27, 311	0 10 1	0 1 0	0 1 0	8 0 0	5 0 0	· 0 0 1	0 3 0	2 0 2
Atlanta Brunswick Savannah Florida:	(1) 16, 809 93, 134	4 1 5	3 0 0	1 0 1	164 0 13	4 1 1	5 0 4	3 0 1	22 0 6
St. Petersburg Tampa	26, 847 94, 743	4	0 2		ö-	0	ō		0 14
EAST SOUTH CENTRAL Kentucky:			_						
Covington Louisville Tennessee:	58, 309 305, 935	12	1 5	ī	7	0	52	0	7
Memphis Nashville	174, 533 136, 220	28 12	1	4 1	0	8 0	26 144	5 0	19 6
Alabama: Birmingham Mobile Montgomery	205. 670 65, 955 46, 481	29 0 5	2 1 1	3 0 1	206 8 14	16 2 0	16 0 0	0 10	17 7 0
WEST SOUTH CENTRAL									
Arkansas: Fort Smith Little Rock Louisiana:	74, 216	1 0	0	1 0	0 3		0	0	4
New Orleans Shreveport Oklahoma:	1	9	12 0	6 0	33	20 0	0	0 2	19 2
Oklahoma City Texas:	1	0	1	1	0	6	0	0	2
Dallas Galveston Houston San Antonio	194, 450 48, 375 164, 954 198, 069	30 0 1 1	0 2 2	5 1 13 1	25 0 5	12 0- 7 9	0 0 0 1	0 0 0	13 3 15 24
MOUNTAIN					ļ				
Montana: Billings Great Falls Helena Missoula	17, 971 29, 883 12, 037 12, 668	1 14 0 0	0 0 0 1	0 0	0 0 0 170	0 0 0 1	0 0	10 0 2	0 1 1 0
Idaho: Boise Colorado:	23, 042	3	0	1	0	0	0	0	o
Denver	280, 911 43, 787	7	9 2	<u>2</u>	ō	8	ō	i	31 4
New Mexico: Albuquerque	21,000	0	1	0	3	2	3	3	0
Arizona: Phoenix Utah:	38, 669	3	1	0	0	1	0	0	1
Salt Lake City Nevada:	1	1	2	6	0	2	0	1	8
Reno PACIFIC	12,665	0	0	0	0	0	0	0	0
Washington: Seattle Spokane Tacoma	(1) 108, 897 104, 455	40 12 0	3	7 3 . 6			. 6	0	<u>2</u>
Oregon: Portland	282, 383	1		7	1	2	}	ł	9
California: Los Angeles Sacramento San Francisco	(1) 72, 260 557, 530		1	47 3 14	. 0	8 0	1 0	3	26 2 10

¹ No estimate made.

^{82792°-26†---3}

City reports for week ended February 27, 1926 Continued

ì	Scarle	t fever	Smallpox			Tuber-		phold f	over	Whoop-	
Division, State, and city	Cases, esti- muted expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re- ported	Canes, esti- mated expect- ancy	Cases 10- ported	Deaths re- ported	ing cough, cuses re- ported	Deaths, all causes
NEW ENGLAND				1							
Maine: Portland	2	4	0	0	0	1.	0	1	0	4	34
New Hampshire: Concord Manchester	0 2	0 7	0	0	0	1 0	0	0	0	0	19 24
Vermont Barre Burlington	1 1	0	0	0	0	0	0	0	0	0	4 8
Massachusetts. Boston	60	82	0	0	0	13	2	1	0	178	222
Fall River Springfield Worcester	3 8 10	10 0	0 0 0	0 0 0	0	6 2 1	0 1 0	0 0 0	0 0 0	18 6	32 33 46
Rhode Island: Pawtucket Providence	1 9	2 8	0	0	0	0 5	0	0	0	5 1	12 83
Connecticut: Bridgeport Hartford New Haven	9 6 7	20 5 17	. 0	0 0	0 0 0	1 3 3	0 1 1	0	0	6 10 14	37 48 40
MIDDLE ATLANTIC				,							
New York: Buffalo New York Rochester Syracuse New Jersey:	19 251 16 16	17 135 15 4	1 1 0 0	0 0 0	0 0 0	14 1116 2 1	1 7 1 0	0 4 1 0	1 2 0 0	18 80 10 78	150 1,809 87 44
Camden Newark Trenton	24 4	7 33 8	0	0 0	0	2 8 4	0 0 1	0	0	5 5 0	57 139 50
Pennsylvania: Philadelphia Pittsburgh Reading	73 27 2	91 55 10	1 0 0	0	0 0	52 13 0	3 0 0	0 0 0	0 0	33 32 4	789 178 24
BAST NORTH CEN- TRAL Ohio:	-			ļ							
Cincinnati Cleveland Columbus Toledo Indiana	13 33 9 22	25 71 24 11	2 1 1 4	0 3 0	0 0 0	13 19 2 5	0 1 0 0	0 0 0	0 0 0	45 114 1 14	120 230 71 80
Fort Wayne Indianapolis South Bend Terre Haute Illinois:	10 3 2	5 15 5 2	0 7 1 1	0 22 1 0	0 0 0	2 7 0 0	0 1 0 0	0 0 0 0	0 0 0 0	43 11 1	38 123 9 19
Chicago Peoria Springfield Michigan:	138 4 1	139 7 2	3 0 0	0 1 0	0 0 0	50 0 0	3 0 0	1 0 0	0 0 0	86 4 22	755 37 16
Detroit Flint Grand Rapids Wisconsin:	93 7 8	124 17 20	3 1 1	0 0 1	0 0	29 0 0	2 0 0	0	0 0 0	62 48 80	370 20 30
Madison Milwaukee Racine Superior	34 4 2	11 24 3 11	0 3 0 4	0 0 0	0 0 0	0 5 2 1	000	0 0	0 0 0	68 34 0	106 106

i Pulmonary tuberculosis only.

City reports for week ended February 27, 1926-Continued

**************************************	Scarle	t fever	Smallpox		Tuber-	Ту	phoid f	ever	Whoop-		
Division, State, and city	Cases, esti- mat ed expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	re-	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ough, cases re- ported	Doaths, all causes
WEST NORTH CENTRAL											
Minnesota: Duluth Minneapolis St. Paul Iowa:	3 42 28	21 62 52	1 13 6	0 0 0	0 0 0	1 2 0	0 1 0	1 0 0	0 0 0	6 8 25	30 75 63
Davenport Des Moines Sioux City Waterloo Missouri:	2 8 2 3	1 1 2 0	2 2 1 0	0 0 3 2			0 0	0 0 0		0 0 0 1	
Kansas City St. Joseph St. Louis North Dakota:	12 3 32	8 156	2 0 4	0 4	0	4 11	0 1	0	0	9	22 240
Fargo	0	0	0	0	0	0	0	0	0	0	2
Aberdeen Sioux Falls Nebraska:	3 4	0	0	0	0	2	0	0	0	0	8
Lincoln Omaha Kansas:	3 5	27	0 6	30	0	8	0	0	0	15 5	68
Topeka Wichita	2 3	1	0	0	0	0 2	0	0	0	3 7	28 22
SOUTH ATLANTIC											
Delaware: Wilmington Maryland:	. 3	6	0	0	0	1	0	0	0	10	71
Baltimore Cumberland Frederick Dist. of Columbia:	42 1 1	25 1 1	0	0	000	25 1 0	0 0	0	0 0	34 0 0	301 11 5
Washington Virginia:	26	32	1	0	0		0	1	1	30	225
Lynchburg Norfolk Richmond Roanoke	0 1 3 0	0 1 6 2	0 0 1 0	0 0 1 1	000	1 0	0 0 1 1	0 0	000	21 2 0	17
West Virginia: Charleston Huntington Wheeling	1	1 0 18	1 0 0	0 1 1	0	1 2	1 0 0	1 1 0	000	23 0 0	20 19 19
North Carolina: Raleigh Wilmington Winston-Salen South Carolina:	0 0	0 3 2	0 0 2	0 0 4	000	1 1	000	000	000	0 1 9	17 12 23
Charleston Columbia Greenville Georgia:	0	0	0	0 1 0	0	1 0	000	0	000	0 0 3	21 7
Atlanta Brunswick Savannah Florida:	4 0 1	3 0 3	3 0 0	0	000	0	0	0 0 1	. 0	0 0 2	78 5 34
St. Petersburg Tampa	- 0	3	- 0	27	- 8		0	<u>i</u>	- 0	Jō	23 56

City reports for week ended February 27, 1926--Continued

***************************************	Scarlet	fever	1	Smallpo	x	Tuber-	тз	phoid f	ever	W hoop-	
Division, State, and city	Caset, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths ro- ported	culo- sis, deaths re-	mated	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Denths, all causes
EAST SOUTH CENTRAL									,		
Kentucky: Covington Louisville	2 5	<u>4</u>	0	ō	0	6	0	ō	ō	7	84
Tennessee: Memphis Nashville	3 4	22 1	2 1	4 0	0	4 5	1 0	1 1	0 1	0	85 48
Alabama: Birmingham Mobile Montgomery	2 0 0	5 0 1	7 1 1	6 0	0 0	4 2 0	1 1 0	0	0 0 0	8 0	96 36. 19
WEST SOUTH CENTRAL											
Arkansas: Fort Smith Little Rock Louisiana:	0 1	1 4	0	0			0	0		0	
New Orleans. Shreveport Oklahoma:	5 0	11 2	2 2	7 0	0	14	0	0	0	2 5	197 24
Oklahoma City Texas:	3	3	4	0	0	0	0	1	0	0	28
Dallas Galveston Houston San Antonio	- 1 0 - 1 - 1	6 1 0 1	0 2 0	3 15 6 0	0	0 5	000	1 0 0	0 1 0 0	11 0 1 0	72 11 72 85
mountain	1 .										
Montana: Billings Great Falls Helena Missoula Idaho:	1 2 0 0		3	0000	000	0	1 0	1 0	000	1 2 0 0	5 12 3 5
BoiseColorado:	1		1	1	0		1	1	0	0	5
Denver Pueblo Now Mexico:	11		- 2	ō	. 6	8	0	0	0	ō	108
Albuquerque. Arizona:	- 1		1	1			-	1	0	1	7
Phoenix Utah: Salt Lake City	7- 4	1	1			1		1	0	24	21 39
Nevada: Reno	c			I	(1	1		o	0	2
PACIFIC							}				
Washington: Seattle Spokane Tacoma Oreson:	10 3 2	25	i	16 0 10		i	- 0	0	0	0 2	24
Oregon: Portland California:	6	1		1]	1	0	2	66
Los Angeles Sacramento San Francisco	19 5- 15	.]	. 1 1	. 1 2	12) 2	0	0	0 0	3 0 3	290 27 164

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City reports for week ended February 27, 1926—Continued

	Cereb	orospinal ungıtis	Let encer	hargie phalitis	Pe	llagra	Pol (infant	iomyel ile par	litis alysis)
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
NEW ENGLAND									
Massachusetts: Boston	0	0	1 0	2 1	0	0	0	0	0
New York: Buffalo New York New Jersey:	2 4	1 3	0 6	0 5	0	0	0	0	0 1
Camden Newark	0	0	1	1 0	0	0	0	0	0
Pennsylvania: Philadelphia Pittsburgh	1 0	2 0	0	2 1	0	0	1 0	0	0
Ohio:									
Cleveland	, 0	0	0	1	0	0	0	0	0
Chicago Michigan: Detroit	0	0	0	1 0	0	0	0	1	0
WEST NORTH CENTRAL									
Minnesota: Duluth. Minneapolis	1 1 0 1	0 0 0 1	0 0	0	0 0	0 0	0 0	0 0 1 0	0 0
SOUTH ATLANTIC	_	_							
Maryland: Baltimore	0	1	0	1	0	0	1	0	0
EAST SQUTH CENTRAL									
Tennessee: Memphis Alabama:	0	0	0	0	0	1	0	0	0
Birmingham	0	0	0	0	2	0	0	0	0
WEST SOUTH CENTRAL					-		İ		
Louisiana: New Orleans Toxas:	0	0	1	1	0	0	0	0	0
Toxas: Dallas Houston	0	0	0	8	1	1	0	0	8
Arizona: MOUNTAIN Phoenix	0	0	0	0	0	1	0	0	0
Washington:			_	١,	_			0	
Seattle Oregon: Portland	2 2	0	0	0	0	0	0	0	0
California: Los Angeles 1 Sacramento		2 0	0	0	0 0	0	0	0 0	0

¹ Typhus fever, 1 case at Los Angeles, Calif.

The following table gives the rates per 100,000 population for 103 cities for the five-week period ended February 27, 1926, compared with those for a like period ended February 28, 1925. The popula-

tion figures used in computing the rates are approximate estimates as of July 1, 1925, and 1926, respectively, authoritative figures for many of the cities not being available. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and more than 29,750,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, January 24 to February 27, 1926-Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925 1 DIPHTHERIA CASE BATES

Week ended-											
Jan. 31, 1925	Jan. 30, 1926	Feb. 7, 1925	Feb. 6, 1926	Feb. 14, 1925	Feb. 13, 1926	Feb. 21, 1925	Feb. 20, 1926	Feb. 28, 1925	Feb. 27, 1926		
2 160	142	³ 169	, 134	1 163	136	153	4 137	ē 163	6 134		
155 2 126 243 121 89	118 130 138 245 116 42 142 264 167	185 170 136 247 3 145 58 167 185 257	97 129 119 220 133 42 138 127 189	237 164 124 251 173 63 154 92 171	123 140 4 132 168 135 47 116 173 140	232 162 116 203 148 74 119 157	116 132 134 202 105 57 90 218 205	5 184 177 111 289 108 47 154 148 246	102 118 4 140 7 263 8 73 9 55 116 10 163 210		
	MEA	SLES (DASE	RATES	3		Comment of the Action				
2 204	1, 383	8 242	1, 481	3 285	41, 717	367	11, 985	₺ 342			
35	2, 751 1, 185 2, 088 277 2, 280 394 26 100 73	556 204 415 16 46 47 35 758 58	2, 408 1, 347 2, 152 408 2, 579 711 34 91 105	637 286 479 28 1 92 68 48 148 28	2, 347 1, 511 42, 633 542 3, 112 732 13 109 167	695 371 637 26 104 47 13 601 61	2, 708 1, 913 12, 899 677 3, 276 960 9 137 202	5 560 341 589 70 77 42 48 888 58	2, 188 2, 040 4 3, 031 7 642 6 2, 856 6 1, 311 9 10 0 162		
sc	ARLE	r fev	ER CA	.se R	TES	11	•	,,			
2 346	287	3 397	298	1 385	1 208	376	4 309	s 390	6 287		
299 - 366 756 - 175 - 200 - 194 - 250	378 235 300 661 154 100 69 255 334	592 372 398 844 3241 89 154 324 246	402 209 338 746 163 119 138 155 326	544 406 371 695 201 194 114 370 168	362 197 4 358 770 171 114 108 218 310	585 374 403 719 157 205 119 240 177	362 208 4 371 772 150 244 108 237 332	\$ 543 411 402 711 192 168 137 305 213	354 187 4 334 7 764 8 203 9 182 112 10 109 313		
	31, 1925 2 160 192 243 121 89 141 1129 279 2 204 467 205 3 340 20 3 346 515 277 8CC - 2346 - 756 - 1755 - 200 - 194 - 255	31, 1925 30, 1926 2 160	31, 1925 30, 1926 7, 1925 118 185 155 130 170 172 128 138 136 243 245 247 121 116 142 167 129 264 185 279 167 257 205 1, 185 20 2, 277 10 35 2, 280 2, 277 10 758 207 177 73 758 207 246 255 372 246 255 378 592 257 17 73 758 277 100 758 776 061 344 175 164 3241 175 164 3241 175 164 69 154 250 25 25 175 175 164 3241 175 164 69 154 250 100 84 1250 255 132 46 13 26 35 127 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	31, 1925 30, 1926 7, 1925 6, 1928 2 160 142 2 169 134 192 118 185 97 1155 130 170 129 1213 138 136 119 243 245 247 220 121 116 145 133 89 42 58 42 141 142 167 138 129 264 135 127 279 167 257 180 MEASLES CASE 2 204 1, 383 2 242 1, 481 467 2, 751 556 2, 408 205 1, 185 204 1, 347 2340 2, 088 415 2, 152 200 277 16 408 205 1, 185 36 36 277 100 758 91 17 73 58 105 SCARLET FEVER CA 2 346 287 397 298 - 515 378 592 402 - 299 325 372 290 - 299 325 372 290 - 299 325 372 290 - 299 325 372 290 - 299 325 372 290 - 299 325 372 290 - 299 325 372 290 - 299 325 372 290 - 299 325 372 290 - 298 330 398 338 - 756 601 844 746 - 175 154 241 163 - 200 100 89 119 - 194 69 154 138 - 250 255 545 138	Jan. Jan. Reb. Feb. 6, 1926 14, 1925 2118 185 97 237 185 130 170 129 164 12 243 245 245 245 247 220 251 131 142 167 138 154 122 167 138 154 122 167 138 154 122 167 138 154 122 167 138 154 122 167 138 154 122 167 138 154 122 167 138 154 122 167 138 154 122 167 138 154 129 264 185 127 92 279 167 257 189 171 MEASLES CASE RATES 246 2, 408 637 255 1, 185 204 1, 347 286 28 245 247 220 251 138 154 125 279 20 277 16 408 28 25 277 16 408 28 25 277 16 408 28 25 277 16 408 28 25 277 16 408 28 25 277 16 408 28 25 277 16 408 28 25 277 16 408 28 25 277 16 408 28 25 277 16 408 28 25 277 16 408 28 25 277 16 408 28 28 25 277 16 408 28 28 25 277 16 408 28 28 25 277 16 408 28 28 277 16 408 28 28 277 16 408 28 28 277 16 408 28 28 277 16 408 28 28 277 16 408 28 28 277 16 408 28 28 277 16 408 28 28 277 16 408 28 28 277 178 28 105 28 28 277 16 408 28 28 28 277 178 28 26 25 24 25 25 26 24 25 25 26 24 25 26 24 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Jan. Jan. Feb. Feb. Feb. Feb. 31, 1925 30, 1926 7, 1925 6, 1926 14, 1925 13, 1926	Jan. Jan. Reb. Feb. Feb. Feb. Jan. Jan. Reb. Jan. Jan. Reb. Jan.	Jan. Jan. Feb. Feb. Feb. Feb. Feb. Feb. Feb. Jan.	Jan. Jan. Feb. Feb. Feb. Feb. Feb. Feb. Feb. Jan.		

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1925, and 1926, respectively.
² Racine, Wis., not included.
³ Wilmington, Del., not included.
³ Madison, Wis., not included.
³ Madison, wis., not included.
³ Madison, Wis., Kansas City, Mo., Winston-Salem, N. C., Covingten, Ky., and Denver, Colo., not included.

included.

⁷ Kansas City, Mo., not included.
7 Kansas City, Mo., not included.
8 Winston-Salem, N. C., not included.
9 Covington, Ky, not included.
10 Denver, Colo., not included.

Summary of weekly reports from cities, January 24 to February 27, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925—Continued

SMALLPOX CASE RATES

					Week o	nded—							
	Jan. 31, 1925	Jan. 30, 1926	Feb. 7, 1925	Feb. 6, 1926	Feb. 14, 1925	Feb. 13, 1926	Feb. 21, 1925	Feb. 20, 1926	Feb. 28, 1925	Feb. 27, 1926			
103 cities	² 65	40	3 73	47	3 76	4 53	64	4 41	⁵ 64	6 41			
New England	0	0	0	0	0	0	0	0	50	0			
Middle Atlantic East North Central) š	1	2	ŏ	4	1	2	Ò	3	0			
East North Central	2 33	43	36	16	33	4 23	52	4 34	26	4 19			
West North Central	189	53	141 3 58	53	187 192	32	123 63	63	117	7 90			
South Atlantic East South Central	599	58 21	756	101 42	620	81 52	488	51 104	40 536	8 60 9 55			
West South Central	57	125	119	155	132	112	79	142	110	133			
Mountain.	46	18	28	73	157	73	83	36	55	10 73			
Pacific	168	205	254	324	210	461	204	194	298	245			
Name of the last o	<u> </u>				<u> </u>	<u> </u>]	<u> </u>	<u> </u>				
	TYPHOID FEVER CASE RATES												
103 cities	1 17	8	3 13	7	3 12	4 6	10	47	⁵ 13	6 5			
New England	7	9	29	14	19	5	0	7	5 13	5			
Middle Atlantic	19	9	13	- â	-6	6	1ŏ	4	8	2			
East North Central	3 10	4	8	3	6	14	6	15	6	41			
West North Central	12	2	0	6	10	4	4	6	16	7 2			
South Atlantic	35	9	3 16	13	3 20	15	8	4	19	8 12			
East South Central West South Central	21 57	10 17	11 22	21	37 44	10	32 40	5 22	32 40	9 11			
Mountain		18	28	36	18	0	37	18	74	30 10 18			
Pacific	3	ii	17	16	ii	13	22	16	8	8			
2 0000012222222222222222222222222222222			1				1	10					
	1	INFLU	ENZA	DEAT	H RAI	ES							
96 cities	2 22	29	3 29	35	3 27	4 34	29	4 50	\$ 34	6 46			
Naw England	26	17	46	12	26	19	17	2	5 39	19			
New England Middle Atlantic	16	18	24	20	22	15	21	27	20	39			
East North Central	.] 311	12	12	12	16	4 11	- 17	411	23	4 14			
West North Central	. 15	13	19	19	11	4	21	19	36	7 22			
South Atlantic.	. 36	36	3 44	68	3 52	64	52	137	46	5 93			
East South Central West South Central	68	73 151	63 92	104	58 116	62 302	68 145	161 298	116	0 143			
Mountain		73	55	109	55	127	55	109	140	227 100			
Pacific		73 78	36	67	4	35	l ii	96	25	35			
	P	NEUM	IONIA	DEAT	H RA	res	11	<u></u>	<u>II</u>	1			
96 cities	2 198	193	8 214	206	3 212	4 213	207	4 260	s 190	6 260			
Now England	232	144	204	201	230	150	232	722	A 00=	100			
New England Middle Atlantic	229	217	252	213	230	156 212	215	175 289	⁸ 235 184	165 316			
East North Central	2 136	136	152	145	158	161	173	4 182	160	180			
West North Central	114	108	106	127	133	77	127	125	150	7 81			
South Atlantic East South Central	238	284	8 295	344	8 247	406	232	486	275	8 456			
East South Central	278		299	249	289	223	294	296	268	0 309			
West South Central	. 218	444	334	387	440	553	387	553	203	378			
MountainPacific	305 193		185 175	228 185	268 171	328 138	263 189	173 174	259	410 142			
4 40444	153	1	110	100	""	100	109	1/9	145	142			
						 	4						

Racine, Wis., not included.
 Wilmington, Del., not included.
 Madison, Wis., not included.
 Madison, Wis., not included.
 Hartford, Conn., not included.
 Madison, Wis., Kansas City, Mo., Winston-Salem, N. C., Covington, Ky., and Denver, Colo., not cluded.

included.

7 Kensas City, Mo., not included.

8 Winston-Salem, N. C., not included.

9 Covington, Ky., not included.

10 Denver, Colo., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively

Group of cities	Number of cities reporting cases	Number of cities reporting deaths	Aggreente of cities cases	population reporting	Aggregate of cities deaths	population reporting
Total	103	96	29, 944, 996	30, 473, 129	29, 251, 658	29, 764, 201
New England. Middle Atlantic. East North Central West North Central South Atlantic. East South Central West South Central Mountain Pacific	12 10 16 14 21 7 8 9	12 10 16 11 21 7 6 9 4	2, 176, 124 10, 346, 970 7, 481, 656 2, 594, 962 2, 716, 970 993, 103 1, 184, 957 563, 912 1, 888, 142	2, 206, 124 10, 476, 970 7, 655, 436 2, 634, 662 2, 776, 070 1, 004, 953 1, 212, 057 572, 773 1, 934, 084	2, 176, 124 10, 346, 670 7, 481, 656 2, 461, 380 2, 716, 070 993, 103 1, 078, 198 563, 912 1, 434, 245	2, 206, 124 10, 476, 970 7, 655, 436 2, 499, 036 2, 776, 070 1, 004, 953 1, 103, 695 572, 773 1, 409, 144

FOREIGN AND INSULAR

SMALLPOX ON VESSEL

The Mexican steamer *Montezuma* discharged two members of the crew at Ensenada, Mexico, on February 21, 1926, suffering from smallpox. All other members of the crew were vaccinated, and the vessel proceeded to San Francisco, where the crew were under observation. No other cases developed.

THE FAR EAST

Report for week ended February 13, 1926.—The following report for the week ended February 13, 1926, was transmitted by the far eastern bureau of the health section of the League of Nations' secretariat, located at Singapore, to the headquarters at Geneva:

	Pla	gue	Cho	olera		all- ox			Plague		Cholera		all- x
Port	Cases	Deaths	Cases	Deaths	Cases	Deaths	Port	Cases	Deaths	Cases	Deaths	Cases.	Deaths
Calcutta Bombay Madras Rangoon Karachi Negapatam Colombo Basra Singapore Port Swettenham Penang Bafayin Surabaya Samarang Belawan Deli Padang (Sumatra) Sabang (Rhio) Makassar Pontianak (Borneo) Kuching (Sarawak) Timor Dilly Manila Zamboanga Bangkok Saigon and Cholon Haiphong Tourane Hongkong Tourane Hongkong Shanghai Nagasaki Yokohama Simonoseki Moji Kkobe Osaka		020200100000000000000000000000000000000	000000000000000000000000000000000000000	27 0 3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	16 10 13 9 5 3 7 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4521053350770000000000000000000000000000000	Niigata Tsuruga Hakodate Keeitung Fusan Dairen Adelaide Brisbane Fremantle Melbourne Sydney Rockhampton Townsville Port Darwin Broome Port Moresby Auckland Wellington Christchurch Invercargill Honolulu Suez Alexandrin Port Said Mombasa (Kenya) Massowah Djibuti. Berbera Mozambique Lourenco Marques Durban East London Port Elizabeth Cape Town Port Louis (Mauritius) Soychelles	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000

ARGENTINA

Plague—Buenos Aires.—A case of plague was reported at Buenos Aires, Argentina, during the week ended January 30, 1926.

BAHAMAS

Smallpox—Stated to have been imported.—Under date of February 23, 1926, the occurrence of six cases of smallpox, stated to have been imported from Florida, was reported in the district of Nassau, Bahama Islands.

Other diseases present.—Some cases of dysentery, influenza, leprosy, and tertian malaria were reported, February 23, as present in the Bahama Islands.

CANADA

Communicable diseases—Week ended February 27, 1926.—The Canadian Ministry of Health reports certain communicable diseases in seven Provinces of Canada for the week ended February 27, 1926, as follows:

Disease	Nova Scotia	New Bruns- wick	Quebec	Onta- rio	Mani- toba	Sas- katch- cwan	Al- berta	Total
Influenza Lethargic encephalitis Smallpox Typhoid fever	40		6	1 39 10	4 2	10	3	40 1 36 21

COLOMBIA

Rodent plague from vessel at Buenaventura.—Report by mail relative to the plague rat found at Buenaventura, Colombia (Public Health Reports, February 26, 1926, p. 408), states that the rat was killed January 29, 1926, as it was jumping ashore from the British steamship Cid.

CUBA

Typhoid fever—Santiago de Cuba.—During the week ended February 27, 1926, 13 cases of typhoid fever with two deaths were reported at Santiago de Cuba.

GREECE

Plague—Herakleion—Island of Crete—February 4, 1926.—A case of plague was reported at Herakleion, Island of Crete, Greece, February 4, 1926.

GUADELOUPE (WEST INDIES)

Typhoid fever—Pointe à Pitre—January, 1926.—During the month of January, 1926, fatalities from typhoid fever were unofficially reported at Pointe à Pitre, Guadeloupe, West Indies.

Prevalence of other diseases.—During the same period 26 cases of amebic dysentery, 50 cases of malaria, and one case of paratyphoid fever were reported in hospital in the colony of Guadeloupe.

MALTA

Communicable diseases—January 1-31, 1926.—During the period January 1 to 31, 1926, communicable diseases were reported in the island of Malta as follows:

Disease	Cases	Disease	Cases
Broncho pneumonia	7	Measles. Pneumonia. Smallpox. Tuberculosis. Typhoid fever.	16
Chicken pox	28		6
Diphtheria	2		15
Inducaza	10		14
Malta (undulant) fever	27		16

Population, civil, estimated, 223,088.

SPAIN

Influenza mortality—Seville.—During the two weeks ended February 10, 1926, five deaths from influenza were reported at Seville, Spain.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given,

Reports Received During Week Ended March 19, 1926 ¹
CHOLERA

Place	Date	Cases	Deaths	Remarks
India	Jan. 24-Feb. 6 Jan. 11-17 Jan. 18-31 Jan. 17-23	29 1 6 30	11 1 4 23	Dec. 27, 1925-Jan. 2, 1926: Cases, 2,610; deaths, 1,463. Including 100 square kilometers of surrounding country.

PLAGUE

Argentina: Buenos Aires	Jan. 24–30	1	************	Jan. 24-30, 1926; 1 plague rodent.
Greece: IIerakleion India	Feb. 4	1		On island of Crete. Dec. 27, 1925-Jan. 2, 1926; Cases.
Madras Presidency Rangoon.	Jan. 3-0 Jan. 17-23	135 4	83 4	1,876; deaths, 1,333
Iraq: Bagdad.	Jan. 24-30	4	4	
Java: Batavia Cheribon	Jan. 16-22. Nov. 30-Dec. 19	58	54 96	Batavia Province.
Pekalongan Surabaya Tegal	Jan. 3-9 Nov. 30-Dec. 19	6	131 6 15	East Java and Madocra.

¹ From medical officers of the Public Health Service, American consuls, and other sources.

Reports Received During Week Ended March 19, 1926-Continued

PLAGUE -- Continued

	PLAGUE.	· Contin	anca	
Placo	Dato	Cases	Denths	Remarks
Netherlands East Indies:	Constitution of the Consti			
Celebes— Makassar	Jan. 6-12	2	. 2	
Siam: Bangkok		2	1	
On vessel:		-	_	T
Steamship Cid				Jan. 29, 1926: At Buenaventura, Colombia. Rat was killed while jumping ashore from vessel. (See Public Health Reports, Feb. 26, 1926, p. 408.)
	SMAL	LPOX		
Arabia:	<u> </u>			
Aden	Jan. 31-Feb. 6	1		* **
Bahamas		*		In Nassau district. Stated to have been imported. Report- ed under date of Feb. 23, 1926.
Brazil: Rio de Janeiro British South Africa:	Dec. 27-Jan. 16	37	29	
Northern Rhodesia	Jan. 5-11	2		73.1. Of Off 1000. Character
CanadaAlberta	Feb. 21-27	3		Feb. 21-27, 1926: Cases, 36.
Manitoba	do	4		
Ontario Toronto	do	19		
Saskatchewan	do	10		
SaskatoonChina:	Feb. 14-20	1		
AmoyFoochow	Jan. 17-30 Jan. 17-23		. 3	Present.
Hongkong	do	2		Frescht.
Manchuria— Dairen	Jan 11-17	7	2	
Shanghai	Jan. 11–17 Jan. 24–Feb. 6	15	28	Cases in foreign population in International Settlement and French Concession; deaths, Chinese and foreign.
South Manchurian Rail- way line—]		
Changchun.	Jan. 31-Feb. 6	. 4		
Kungchuling	do	. 1		,
Tientsin Egypt: Alexandria	Jan. 23-30	1 4		
CIT CITO TO TOTALL	Jan. 29-Feb. 4		1	
Hull Newcastle-on-Tyne	Feb. 7-20	6		
ingia				Dec. 27, 1925-Jan. 2, 1926; Cases,
Bombay Calcuita	Ton 17-23	19 56	27	3,869; deaths, 986.
Karachi	_ Jan. 18-30	. 1 9	3	
Madras Indo-China (French):	Jan. 24-30	. 4	i	,
Saigon	Jan. 11-17	. 1		Including 100 square kilometers of surrounding country.
Iraq: Bagdad	Jan. 24-30	. 6	2	or surrounding connery,
Italy: Genoa	Feb. 1-10	2		
Java: Buitenzorg	Nov. 29-Dec. 5	. 1		
Cheribon	Dec. 6-12	î		
Malang Surabaya	- Dec. 27-Jan. 2	1		wa . w
Latvia		(نمک	6	East Java and Madoera.
Malta				Dec. 1-31, 1925: Cases, 3. Jan. 1-31, 1926: Cases, 15.
Mexico: Aguascalientes	Feb. 14-27		4	
Aguascalientes Guadalajara San Luis Potosi	Feb. 23-Mar. 1 Feb. 21-27		Î	

Reports Received During Week Ended March 19, 1926—Continued

SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Notherlands: Hague, The Palestine: Hebron Persia: Teheran Portugal: Lisbon Oporto. Siam: Bangkok. Union of South Africa: Cape Province. On vessel.	Jan. 30-Feb. 6 Jan. 26-Feb. 1 Jan. 18-31 Jan. 31-Feb. 13 Jan. 17-23 Jan. 17-23 Feb. 21	1 5	6 1 1	Sept. 22-Oct. 22, 1925: Deaths, 262. Outbreaks. Mexican steamer Montezuma, at Port of Ensenada, Mexico.
	TYPHUS	FEVE	R	
China: Harbin Latvia Mexico: Mexico City	Jan. 29-Feb. 4 Feb. 14-20	2	*****	December, 1925: Cases, 10. Including municipalities in Fed-
Turkey: Constantinople Union of South Africa: Cape Province	Jan. 24-30	3		eral District. Outbreaks in two districts.

Reports Received from December 26, 1925, to March 12, 1926 1

CHOLERA

Place	Date	Cases	Deaths	Romarks
Chosen India Calcutta Do. Do. Madras 1Do. Rangson.	October, 1925 Nov. 1-28	101 174 41 41	89 54 41 70 32 4	Oct. 18-Dcc. 19, 1925: Cases, 18,697; deaths, 10,018.
Indo-China Province— Annam Cochin China Saigon Tonkin Japan Do Philippine Islands: Manila Do. Province— Bataan. Bulacan. Do. Laguna. Nueva Ecija Pampanga. Do. Rizal. Romblon.	Sept. 1-30	2 2 409 82 15 5 5 92 200 18 6 1 113 75 23	2 3 1 10 17 25 64 88 14 2 1 85 21 12	September, 1925; Cases, 9; deutins, 6. September, 1924; Cases, 7; deaths, 4. (European cases, 2.) September, 1924; None. September, 1924; None. Including 100 kilometers of surrounding country. September, 1924; None.

I From medical officers of the Public Health Service, American consuls, and other sources

Reports Received from December 26, 1925, to March 12, 1926-Continued

				The state of the s
Place	Date	Cases	Deaths	Remarks
Russia	May-June July-August	7		-
Siam: Bangkok Do Do	Oct. 4-Nov. 14 4Nov. 22-Dec. 26 Dec. 27-Jan. 16	108 270 85	68 149 60	
On vessel: Steamship	Oct. 3	9		Arrived at Bangkok, Siam: cases in coolie passengers.
1999 година подполница и постоя подполница на подполница на 1944 година — на тогори подудова	PLA	GUE		
	<u> </u>	<u>'</u>	1	
Argentina		-]	Jan. 24-30, 1926: Six cases, occur- ring in interior provinces of Salta and Santa Fe.
Brazil: Bahia Do	Nov. 8-Dec. 27 Dec. 27-Jan. 2	3	1	
Santos British East Africa: Kenya—	Dec. 8-21		2	r.
Kisumu Uganda Protectorate	Nov. 22-Dec. 5 September-No- vember.	338	308	1
Canary Islands: La Laguna	Dec. 24	3	2	1
Las Palmas	Jan 7	. 1		
Do Santa Cruz de Teneriffe Do	Dec. 18-27 Dec. 28-Feb. 1	3 3	1	,
Celebes: Makassar Ceylon:	Dec. 29-Jan. 4	4	4	Netherlands East Indies.
Colombo	Nov. 15-Dec. 5 Dec. 27-Jan. 16	3 2		1 plague rodent.
China: Nanking Ecuador:	Nov. 15-Jan. 23			Prevalent.
Eloy Alfaro	Jan. 1-15 Nov. 1-Dec. 31 Jan. 1-31	31	12	The first along Name 1 70cc of 1005
Recreo (country estate)	do	34		Rats taken, Nov. 1-Dec. 31, 1925, 49,370; rats found infected, 281. Rats taken, Jan. 1-31, 1926, 24,672; rats found infected, 234.
Egypt Beni Suef Fayoum Province	Nov. 18 Dec. 3-9	i		Jan. 1-Dec. 9, 1925; Cases, 138. Corresponding period, 1924; Cases, 365.
Greece: Athens	Nov. 1-30	18	4	Including Piræus.
Patras Hawaii Territory: Pasuilo	Jan. 1-31 Nov. 13-Dec. 12	14		Town 90, 1098; Plantas infantal aut
India				Jan. 29, 1926: Plague-infected rat found in vicinity. Oct. 18-Dec. 26, 1925: Cases,
Bombay	Dec. 6-12 Jan. 3-9	. 1	1	Oct. 18-Dec. 26, 1925; Cases, 13,259; deaths, 9,344.
Do Calcutta	Jan. 3-9 Dec. 6-12	. 2	1	1
Karachi	Nov. 1-Dec. 19	. 4	3	
Madras	_ Oct. 25-Nov. 7	. 75	1 41	1
Do	Nov. 15-21 Dec. 20-26	35		
Rangoon	Oct. 25-Dec. 26	108		
Do	Dec. 27-Jan. 16	10	8	
Indo-China Province—				September, October, 1925: Cases, 25; deaths, 23. September, 1924, fatal, 12.
Cambodia	Sept. 1-30	11	11	1924, fatal, 12. September, 1924: Cases, 9; deaths,
Cochin China	September-Octo- ber.	14	12	September, 1924: 1 case, 1 deuth.
Iraq: Bagdad	Dec. 13-Jan. 2	7	3	

Reports Received from December 26, 1925, to March 12, 1926—Continued

PLAGUE-Continued

	1			· · · · · · · · · · · · · · · · · · ·
Place	Date	Cases	Deaths	Remarks
ava:				
Deterrie	Oct. 24-Nov. 6	94	89	Province
Do Do	Nov. 14-Jan. 1	315	297	
Do	Jan. 2-15	63	63	
Cheripon	Sept. 27-Oct. 17 Nov. 15-28		166	
Do	Nov. 15-28		59	
Djokjakarta	Oct. 20-Nov. 9			Epidemic in 1 locality.
Kedui.	Dec. 7		42	Do.
Pekalongan Do	Sept. 27-Oct. 17 Nov. 8-28		80	
Rembang	Oct. 20		30	Do.
Surahava	Oct. 11-Dec. 26	59	59	20.
Do	Dec. 27-Jan. 2 Sept. 27-Oct. 17	10	ĭŏ	
Tegal	Sept. 27-Oct. 17	6	6	
Do	Nov. 8-28		14	
Aadagascar				Nov. 1-30, 1925: Cases, 2
Province				deaths, 220.
Itasy	Sept. 16-Oct. 31	20	20	
Do	Nov. 16-30	13	13	
Moramanga	Sept. 16-Nov. 30	25 368	25 341	
Tananarive Town—	do	308	341	
Fort Dauphin	do	6	3	
Tamatave (port)	Sept. 16-30	3	2	
Do	Oct. 16-Nov. 30	9	9	
Tananarive	Sont 16-30	9	2	
Do	Nov. 1-30 Sept. 20-Dec. 26 Oct. 1-Nov. 30	11	11	
Mauritius Island	Sept. 20-Dec. 26	21	18	
Pamplemousses	Oct. 1-Nov. 30	3	2	
Port Louis	do	4	1	
Rivière du Rempart	do	2		
Vetherlands India:				
Celebes Island— Makassar	Dec. 12	Ì	ì	Epidemic.
Nigeria	August-October	496	371	Epideime.
Peru:	August-October	200	0.1	
Huacho	Jan. 26	15		Port 60 miles north of Callac.
Lima	Jan. 1-31	20		Port 60 miles north of Callao. In hospital. Some cases in pr
		1	,	inco.
Mollendo	do			12 or 15 cases reported und
Russia	Mars Trans	67	1	Ciany.
T)A	May-June July-September	157		
Do Senegal	September-Octo-	45	25	
30ttrp,t#	her	70	20	,
Siam	ber. Aug. 23- Oct. 31 Nov. 15 28	53	* 43	ľ
Bangkok	Nov. 15 28	3	3	
100	Jan. 3-16	36	31	,
Straits Settlements:		i	1	
Singapore	Nov. 1-Dec. 5	. 8	8	
Syria:				
Beirut	Nov, 11-20	. 1		
Union of South Africa:	I .	į.	į	
Cape Province	The 10 10		i	
Kimberley district Middleburg district	Dec. 13-19 Dec. 6-12	1		European.
Steynsburg district	Nov. 15-21	i		Native. On farm.
Orange Free State—	1407. 117-21	1 *		1440140. (/// /// /// ///
Boshof district	Nov. 29-Dec. 5	. 1	1	In native.
Bothaville district	Dec. 6-12	. i	1	Native. On farm.
		1	ł	1
	SMAI	LPOX		
				1
		1		
Algeria:				
Algeria:	Nov. 21-Dec. 31	177		
Algiers	Nov. 21-Dec. 31	. 64		
Do	Jan. 1-10	. 64		
Algiers Do Do Arabia:	Jan. 1-10 Jan. 21-31	64 36		
Algiers	Jan. 1-10 Jan. 21-31	64 36		Imported.
Algiers	Jan. 1-10	64 36	1	Imported.

Reports Received from December 26, 1925, to March 12, 1926—Continued

SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
Australia: Queensland— Brisbane	Dec. 9-15	1		
Brazil: Para Rio de Janeiro Do British East Africa:	Jan. 10-30 Nov. 1-28 Dec. 6-26	25 134 65	5 72 26	
Kenya— Mombasa Do Uganda Protectorate	Nov. 15-Dec. 19 Dec. 27-Jan. 2 Sept. 1-Oct. 31	14 1 8	6	From mainland.
British South Africa: Southern Rhodesia Canada	Nov. 13-Dec. 23	3 نز		Sept. 13-Jan. 2: In 7 Provinces, 186 cases. Jan. 3-23, 1926, cases, 115. Jan. 31-Feb. 6, 1926,
AlbertaCalgary	Jan. 10-Feb. 26 Dec. 13-19	26 1		115. Jan. 31-Feb. 6, 1926, cases, 33. From Drumheller, vicinity of Calgary.
British Columbia— Vancouver	Jan. 4-10 Jan. 3-Feb. 13 Dec. 13-19	1 22 2		
Do New Brunswick— Northumberland Onterio	Jan. 3-Feb. 6 Dec. 6-13 December, 1925	9 1 32		
DoAdmastonOttawaDo	Jan. 1–Feb. 13 Jan. 1–31 Dec. 6–12 Jan. 3–Feb. 6	103 11 2 2		
Toronto	Dec. 27-Jan. 2 Jan. 3-23. Feb. 6-20 Jan. 1-31.	1 21 3 7		
Saskatchewan Moose Jaw Regina Ceylon:	Jan. 3-Feb. 13 do Jan. 24-30	39 2 1		
Colombo	Dec. 6-12	1 2		Port case.
Amoy	Oct. 25-Dec. 19 Jan. 10-16 Dec. 7-20 Nov. 15-Jan. 23	2	1	Present.
Foochow Hankow Do Hongkong	Nov. 1-Jan. 9 Nov. 14-Dec. 26 Jan. 10-16 Nov. 22-Dec. 26	4 1 4	*********	100,
Do Manchuria— An-shan Do	Jan. 3-16 Dec. 6-12 Jan. 10-30	2 1 3		South Manchurian Railway.
Changchun Dairen Do Fushun	Oct. 19-Dec. 27 Dec. 28-Jan. 10 Jan. 17-23	10 73 20 1	15 4	Do.
Harbin Kai-yuan Lio-yang Mukden	Jan. 1-7 Jan. 10-30 Jan. 17-23 Oct. 24-Nov. 15 Jan. 24-30	1 4 1		Do. Do. Do.
DoSwatowTieh-lingNanking	Jan. 24-30 Nov. 22-Jan. 30 do Nov. 21-Dec. 26	<u>1</u>		Do. Prevalent.
DoShanghai DoTientsin	Dec. 27-Jan. 9 Oct. 25-Jan. 2 Jan. 3-23 Nov. 1-Dec. 19	37 24	36 49	Do. Do. Cases, foreign only.
Egypt: Alexandria Do	Dec. 3-31 Jan. 8-14	2 5 2	2 1	
Esthonia				November, 1925: Cases, 3,

Reports Received from December 26, 1925, to March 12, 1926—Continued

SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
France.				September-October, 1925: Cases, 91.
Gold CoastGreat Britain:	September, 1925	14	4	
England and Wales				Nov. 15-Dec. 26, 1925: Cases, 790. Dec. 27-Jan. 30, 1926: Cases,
Hull	Dec. 27-Jan. 23 Jan. 14-Feb. 6	29 4		1,526. 27-Jan. 30, 1920; Cases,
Leeds Newcastle-on-Tyne	Nov. 29-Dec. 19	6		7,020
Do	Nov. 29-Dec. 19 Dec. 27-Feb. 6	20		
Nottingham	Nov. 22-Dec. 26 Dec. 27-Jan. 9	9		•
Do	Dec. 27-Jan. 9	2 7		
Sheffield Do	Nov. 22-Dec. 12 Dec. 20-26	3		
Do	Dec. 27-Feb. 6	12		
Do South Shields	Feb. 9			Reported present in severe form.
Greece				Locality on Tyne River, 10 miles from Newcastle; present in Arab quarters of town. Oct. 1-31, 1925: Cases, 16.
Athens	Nov. 1-30	17	1	
Do	Jan. 1-31	23	1	Oot 19-Dog 06 1005; Cores
India	Now 9 Dec 00			Oct. 18-Dec. 26, 1925: Cases, 19,472; deaths, 4,440.
Bombay Do	Nov. 8-Dec. 26 Dec. 27-Jan. 9	26 26	20 13	20,212, 000000, 2,220.
Calcutta	Nov. 29-Dec. 26	48	25	
Do	Dec. 27-Jan. 16	73	36	
Karachi	Nov. 1-21 Nov. 29-Dec. 5	23	2	•
Do	Dec 13-19	3		
Do	Dan 20-Ton 16	12	6	
Madras	Nov. 15-Dec. 26	17	5	
Do	Dec. 27-Jan. 23	28 3	7	
Rangoon Do	Dec. 6-26	3	1	
Do	Dec. 27-Jan. 16	13	î	
Indo-China				September-October, 1925: Cases,
Province-		Ì		204: deaths, 62. September, 1924: Cases, 78; deaths, 22. September, 1924: Cases, 8;
Annam	Sept. 1-Oct. 31	90	23	September, 1924: Cases, 8;
	· -			deaths, 2.
Cambodia	do	72	30	September, 1924: Cases, 16; deaths, 1.
Cochin China		61	30	September, 1924: Cases, 43; deaths, 19.
Saigon Do	Jan. 1-10	î	1	Including 100 kilometers of sur-
				rounding country.
Tonkin	do	22		rounding country. September, 1924: Cases, 11. Sept. 6-Oct. 17, 1925: Cases, 81;
Iraq Bugdad Do Do Do Do Do Do Do Do Do Do Do Do Do	Nov 1-14	4	4	deaths, 40.
Do	Nov. 22-Dec. 26	15	11	
Do	Dec. 27-Jan. 2	5	2	
Italy Genon		2		Aug. 2-Oct. 31, 1925: Cases, 38.
Rome	Oct. 12-25	î		
Jamaica				Nov. 20-Dec. 26, 1925: Cases, 95. Dec. 27-Yan. 30, 1926: Cases, 138. Reported as alastrim. Reported as alastrim.
	į.		1	Dec. 27-Jan. 30, 1926; Cases,
Kingston	Nov. 29-Dec. 26	43	1	Reported as alastrim.
Do	Dec. 27-Jan. 30	48		Do.
Japan:				
Taiwan	Nov. 11-Dec. 10	. 3		
Yokohama Do	Dec. 14-20 Feb. 23	•		1
Java:	1 00. 20	Ϊ .		1
Batavia	Oct. 24-30	. 1		
Do	Nov. 14-Dec. 25	1 7		
Cheribon Kraksaan	Nov. 8-14 Oct. 11-17	11		
Malang	. do	2		
North Bantam	. Oct. 4-17	4		
Pekalongan	Oct. 25-31	. 1		
82792°26†-	•	•	1	ı

Reports Received from December 26, 1925, to March 12, 1926—Continued

SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Java-Continued.				`
Probolingo	Oct. 11-17	1		•
Surabaya	Oct 11-Dec 26	633	104	
Do	Oct. 11-Dec. 26 Dec. 27-Jan. 2	. 17	10	
South Bantam	Oct. 11-17	i		
Tegal.	Oct. 4-10	9	1	
Latvia	000, 1 10111111111			December, 1925; Cases, 3.
Malta	Nov. 1-Dec. 31	21	3	
Mexico.			.:	July-September, 1925: Deaths,
Aguascalentes	Dec. 13-Jan. 2	4	3	1,157.
Do	Jan. 3-30		7	•
Durango	Dec. 1-31		1	
Do	Jan. 1-31		2 3	
Guadalajara	Feb. 1-22		3	
Mexico City	Nov. 28-Dec. 5	1	.,	Including municipalities in Fed-
<u>-</u>		M	_	eral District
Do	Jan. 3-Feb. 6	4		Do.
San Luis Potosi	Jan. 17-Feb. 20		27	
Tampico	Dec. 21-Jan. 2	ī	1	
_ Do	Jan. 2-Feb. 20	5		
Torreon	Nov. 1-Dec. 31		51	
Do	Jan. 1-31		33	
Nigeria.	August-October	211	6	
Persia:		ł		
Teheran	July 23-Sept 22		203	
Peru:				
Arequipa	Oct. 1-Dec. 31		2	AT
Poland.				Nov. 1-28, 1925: Cases, 9.
Portugal:	0-4 4 05			
Lisbon	Oct. 4-31	124		
Do	Nov. 16-Dec. 27		60	
Do	Nov. 14-Dec. 26 Dec. 27-Jan. 17	187		
Do	Dec. 27-Jan. 17	40	17	
Oporto	Nov. 22-Dec. 19 Dec. 27-Jan. 2	2	3	
DoRussia	Dec. 27-Jan. 2			May-June, 1925: Cases, 2,333
Tìn '	Tuly_Amount	760		may-June, 1520. Cases, 1,000
Siam	July-August	100		July 12-Sept. 5, 1925: Cases, . 1;
Bangkok	Dec. 20-25.	3	1	deaths, 6.
Do	Dec. 26-Jan. 16	8	5	deusing si
Sierra Leone:	200.20 000.10	"		
Konno district	Dec. 16-31	5		
Spain:		1		
Madrid	Year 1925	l	18	
Malaga	Nov. 29-Dec. 5		2	
Do . ·	Dec. 27-5in. 2		1	
Valencia.	Dec. 20-26	1 1		
DO	Dec. 27-Jan. 2	1 1		
Do	Jan. 10-Feb. 6	9		
Straits Settlements:	İ	ł	i 1	
Singapore	Dec. 20-26	1		
Switzerland				June 28-Nov. 21, 1925; Cases, 62.
Lucerne	Oct. 1-Nov. 30	8		
Zurich	Dec. 27-Jan. 2	1		
Trinidad (West Indies):		_	1	
Port of Spain	Jan. 22	1		Imported.
Tunisia:				
Tunis	Nov. 21-30	2		'
Do	Dec. 11-31	10	1	
130	Jan. 1-20	5		
Do		1	1	
Union of South Africa:		l .		
Union of South Africa: Orange Free State—			1	0-12-1-1
Union of South Africa: Orange Free State— Kuruman district	Jan. 10-16			Outbreaks.
Union of South Africa: Orange Free State— Kuruman district—— Ladybrand district———				Outbreaks. Do.
Union of South Africa: Orange Free State— Kuruman district—— Ladybrand district—— Transvaal—	Jan. 10-16 Dec. 27-Jan. 2			Do.
Union of South Africa: Orange Free State— Kuruman district Ladybrand district Transval— Belfast district	Jan. 10-16 Dec. 27-Jan. 2			Do. Do.
Union of South Africa: Orange Free State— Kuruman district—— Ladybrand district—— Transvaal—	Jan. 10-16 Dec. 27-Jan. 2			Do.

Reports Received from December 26, 1925, to March 12, 1926—Continued TYPHUS FEVER

		· · · · · ·		
Place	Date	Cases	Deaths	Remarks
Algeria:				
Algiers	Nov 1-Dec. 20	2		
Argentina:	0			
Rosario.	Oct. 13-Dec. 31	2 29	2	
Bulgaria Sofia	Sept. 1-Nov. 30 Dec. 25-31	1	4	
Do	Jan. 8-14	2	-:	
Chile:				
Valparaiso	Nov. 29-Jan. 2		2	
China:	Nov. 29-Dec. 27	5	1	
Antung Do	Jan. 4-10	1		,
Hongkong	Dec. 27-Jan. 2	î		·
Manchuria-		-		
Harbin	Dec. 17-23 October-NG-ember	1		
Czechoslovakia	October-No-ember	94		ı
Egypt: Alexandria	Jan. 8-14	1		
Cairo	Nov. 5-11	2	2	·
Port Said	Nov. 19-25	ī		
Finland				October, 1925: 1 case.
France	July-October	4		
GermanyGreece.	Oct. 25-31	1		
Athens.	Nov. 1-30	11	2	
Do	Jan. 1-31	19	' 4	
Saloniki	Dec. 29-Jan. 4	1		·
Hungary				November, 1925: Cases, 3.
Ireland:				
Cork	Dec. 26-Jan. 1	2		
Do	Jan. 2-8			
Dumanway	Nov. 14			
Galway County	Oct. 17.	1		
Latvia Lithuania	October, 1925]	September-October, 1925: Cases,
Advitabilition				9; deaths, 1.
Mexico				July-September, 1925: Deaths,
Aguascalientes	Dec. 14-19	1		90.
Durango	Dec. 1-31		1	
Do	Jan. 1-31 Dec. 8-28		1 2	
Do	Dec. 29-Jan. 4		î	
Mexico City	Nov. 22-Dec. 26	145		Including municipalities in Fed-
			-	eral District.
Do	Dec. 27-Feb. 13	56		Do.
San Luis Potosi Tampico	Feb. 6-13 Dec. 21-Jan. 10		1	
Torreon	November, 1925	1	i	
Vera Cruz	Feb. 12		ì	
Morocco.	August-November	39		
Norway				November, 1925: Case, 1.
Palestine:	70-0-10	١.		,
Jaffa	Dec. 18 Dec. 1-7	1 1		
Nazareth	Nov. 3-9			
Safad.	Nov. 24-30		,	
Tel-Aviv	do	1		
Peru:	Astahan Dans-t-	1		
Arequipa. Poland.	Oct 11-Nov 14	142	3	
Rumania	Oct. 11-100v. 14	142	10	July-August, 1925; Cases, 107;
				deaths, 15
Russia				May-June, 1925: Cases, 10,680.
Do				July-September, 1925; Cases,
		i	1	3,851.

Reports Received from December 26, 1925, to March 12, 1926--Continued

TYPHUS FEVER-Continued

Place	Date	Cases	Deaths	Remarks
Cape Province	Oct. 1-Dec. 5	23 8	5 8 1 1	October, 1925. Cases, 88; deuths 7 (colored). Cases, European, 7. December, 1925: Cases, 78; deaths, 9. Colored: Cases, 73; deaths, 9. Colored: Cases, 73; Colored. Outbreaks. European. On farm. Outbreaks. Native. On farm.
	YELLO	w fev	ER	
Gold Coast	September- October	2	1	and a contractive regarder second described as a signature but on a acceptable payment

Gold Coast				
Nigeria Senegal	October August-October	3	2	
DOLLOGAL	110101111111111111111111111111111111111			 THE TRAINING WAS ASSESSED.

TREASURY DEPARTMENT

PUBLIC HEALTH REPORTS

ISSUED WEEKLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

Volume 41 :: :: Number 13

MARCH 26 - - 1926

= SPECIAL ARTICLES =

Relation of Endemic Goiter to Potential Foci of Infection Recent Court Decisions Relating to the Public Health



WASHINGTON
GOVERNMENT PRINTING OFFICE
1926

UNITED STATES PUBLIC HEALTH SERVICE

Hugh S. Cumming, Surgeon General

DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg. Gen. B. J. LLOYD, Chief of Division

The Public Health Reports are issued weekly by the United States Public Health Service through its Division of Sanitary Reports and Statistics, pursuant to acts of Congress approved February 15, 1893, and August 14, 1912.

They contain: (1) Current information of the prevalence and geographic distribution of preventable diseases in the United States in so far as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other communicable disease throughout the world. (2) Articles relating to the cause, prevention, or control of disease. (3) Other pertinent information regarding sanitation and the conservation of the public health.

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Yellow fever

PUBLIC HEALTH REPORTS

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NO. 13

THE RELATIONSHIP OF ENDEMIC GOITER TO CERTAIN POTENTIAL FOCI OF INFECTION

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GENERAL CONSIDERATIONS

Whether or not goiter is caused by foci of infection is a question of manifest importance in both the prevention and treatment of the malady. Unfortunately, there appears to be no unanimity of opinion or uniformity of experience on the subject. The proponents of the iodine deficiency theory, believing the deprivation of iodine to be the principal if not the sole agent in the causation of goiter, seldom mention other possible etiological factors. Other observers, however, incline to the belief that foci of infection are definitely responsible for endemic goiter. Still others conclude, as the result of practical investigation, that there is no causal relation between such sources of infection and goiter. Consequently, the subject is surrounded by contradictory as well as confusing assumptions and statements.

During the course of a study in Cincinnati devoted primarily to the determination of the effects of endemic goiter upon physical growth, an opportunity was presented for making certain observations upon the condition of the teeth and tonsils. These facts have been correlated with the thyroid findings in an effort to discover, if possible, the existence of a possible relationship. In presenting this discussion the literature pertaining to the subject will first be reviewed briefly. Thereafter the scope and limitations of the study will be presented. Finally the results of the investigation will be given.

1. REFERENCES FROM THE LITERATURE

In this section a sufficient number of references will be cited to illustrate the trend of thought on the subject. The citations, of course, are far from complete, but, nevertheless, they illustrate the tendencies of experience and belief. Necessarily the opinions and the observations upon which they are based vary within wide limits.

Negative findings.—Categorical denial of the existence of a relationship between thyroid enlargement and foci of infection has been made by Hertzler (1). A study of the problem by Dillingham, one of Hertzler's assistants, resulted negatively.

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Gamble (2) sent a questionnaire to physicians in Mississippi in order to learn their experience relative to the influence of focal infections upon the thyroid. The majority, contrary to Gamble's personal experience, had failed to note a correlation.

Foci of infection as cause of goiter.—The majority of the contributions to the literature on foci of infection as a cause of endemic goiter are positive and affirmative in character.

Harrower (3), for instance, believes that the coincident occurrence of oral and dental infections in simple goiter has been accurately demonstrated.

Evans (4) regards a deficiency of iodine as only one, although the most important, cause of goiter. In addition he cites bad teeth, infected tonsils, suppurations in the nose, digestive disturbances, mental shock, and other powerful emotions as responsible factors.

In addition to local infections, Pern (5) maintains that a calcium deficiency contributes to thyroid enlargement. Furthermore, in his opinion, goiter is caused by intestinal infection and a fat deficiency.

Bram (6) states that focal infections from teeth, tonsils, nasal sinuses, and, more remotely, from gastro-intestinal and genitourinary affections, are commonly responsible for thyroid enlargement.

Other observers, while professing to believe that goiter is caused by foci of infection, are more cautious in expressing their opinions. Brown (7), for instance, mentions the possibility of a relationship between goiter and tonsillar infections. He inclines to the belief, however, that the tonsil is no more likely to be the focus of infection than any other nidus, e. g., sinuses, teeth, and gall bladder. Brown urges that throat specialists pay particular attention to the state of the thyroid in all cases of infected tonsils. All who treat thyroid disorders are urged by him to regard infected tonsils as a possible exciting factor.

Jackson (8), basing his conclusions upon an experience with 300 colloid goiters, believes that the removal of septic tonsils proves of some benefit in certain cases.

In discussing the indications for tonsillectomy, Greene (9) maintains that the diseased tonsil should be viewed with suspicion in the presence of thyroid enlargement. At the same time he warns that other foci of infection should not be overlooked.

Booth (10) has frequently noted improvement in adolescent goiter after foci of infection have been eliminated. He contends that goiter is the indirect result of focal or general infection rather than the direct result of some specific infection such as may be borne by water. He regards infection of the mouth, sinuses, tonsils, gall bladder, appendix, or the presence of abnormal flora in the intestinal tract, as possible causes of goiter.

From these extracts from the literature it will be apparent that there is considerable diversity of opinion concerning the possible influence of foci of infection upon endemic goiter.

2. SCOPE AND LIMITATIONS OF PRESENT STUDY

As previously mentioned, the present study concerning the possible relationship between potential foci of infection and endemic goiter was carried on while certain physical measurements were being secured in the Cincinnati public schools during the 1924–25 school session.

The children examined, all of whom were white, attended eight schools in Cincinnati selected because of their diversified character. Thus, three of the schools were located in the poorer sections of the city, two in the sections of moderate economic status, and one in the best section of the city. In addition to these there was one vocational school, attended largely by girls, and one junior high school.

In the six elementary schools visited, the children examined attended the fifth, sixth, seventh, and eighth grades. In the vocational and junior high schools most of the children were older and attended higher grades. By this process of selection a cross section of the elementary school population was obtained. Moreover, this cross section was representative of various school ages, grades, sections of the city, environment and social status.

The observations were all made by experienced physicians and included, for the purposes of the present investigation, the condition of the teeth and tonsils. Notations were made concerning the degree of dental decay (slight or marked) and the number of teeth involved. With regard to the tonsils, observations were made of the degree of enlargement (slight, moderate, or marked) and also whether the organs were cryptic in character. Notations were also made of the number of children with apparently normal tonsils and of those in whom the tonsils had been removed by operative procedure. At the same time the condition of the thyroid gland was ascertained.

Limitations of the observations on teeth.—It should be fully realized that dental decay is not synonymous with focal infection. In fact, it is probable that septic absorption occurs most freely when the decay has extended to the root canal. Obviously there was little opportunity for determining this fact accurately during the survey. However, very many of the markedly decayed teeth were presumably serving as-foci of infection. It is also reasonable to suppose that the possibilities for systemic infection were increased with successively greater numbers of markedly decayed teeth. A distinction was made between slightly and markedly decayed teeth. In the former class were included teeth with small, distinct, and easily

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remediable defects. Under the heading of markedly decayed teeth were included those with large cavities of manifestly long duration, perforations of the pulp cavity and those obviously in need of extraction.

Limitations of the observations on tonsils.—Enlarged tonsils are not necessarily diseased and not invariably sources of infection. Consequently the classification of tonsils as slightly, moderately, and markedly enlarged must be accepted as hypertrophy rather than invariable or actual infectivity. At the same time the enlarged tonsils, when inflamed or accompanied by frequent sore throat, are presumably diseased. Moreover, appropriate treatment is indicated. Probably more expressive of actually diseased condition is the cryptic tonsil with exudation of pus.

In all probability the examinations of teeth and tonsils during the present investigation were made just as carefully as those upon which other conclusions regarding the relationship between goiter and foci of infection have been based. Whatever mistakes have occurred through errors of judgment or failure to elicit subjective symptoms of marked dental decay or tonsillar disease have been uniformly distributed throughout the series of observations. Therefore, the differences if any, between the dental and tonsillar conditions of thyroid-normal and thyroid-enlarged children should be distinctive.

3. RESULTS

In this section the data secured during the study are presented. Moreover, by means of tables, and analyses of the available material, the presence or absence of a relationship between thyroid enlargement and infectious foci in teeth and tonsils will be brought out.

Ages, sex, and numbers of children.—Of the 2,917 white children included in the investigation, 1,341 were boys and 1,576 were girls. Among the boys, 515 instances of thyroid enlargement, 38.4 per cent, were noted. A greater number of enlargements, 927, or 58.8 per cent, were recorded among the girls. The number of children of each age and the number and percentage of thyroid involvements are set forth in Table 1. It will be seen that the percentage of thyroid enlargements is considerably greater among the girls, though relatively high in both sexes. The customary decline in the percentage of involvements among boys after the age of 13 years and the steady though uneven increase among the girls of increased age are particularly noteworthy.

Degrees of enlargement.—In classifying the degrees of enlargement the methods described in a previous publication (11) were utilized. However, owing to the relatively small number of some of the enlargements, it was found desirable, for statistical purposes, to reduce the

5 degrees to 3. Thus the "very slight" and "slight enlargements" were combined and termed "slight;" "moderate enlargements" was allowed to stand; and "marked" and "verymarked" thickenings were combined and called "marked."

The number and percentage of each degree of thyroid enlargement, at each age between 11 and 15 years, as well as for all ages combined, are also given in Table 1. It will be seen that slight enlargements were a little over one and one-third times more frequent among the girls than among the boys, 50.4 per cent against 37.2 per cent; moderate enlargements were approximately seven times more frequent among the girls, 6.9 per cent as compared with 1 per cent; and the combined marked and very marked involvements were about seven times more frequent among the girls.

TEETH

The results of the dental examinations are presented in Table 2, calculations being available for both boys and girls. Satisfactory dental hygiene and good economic conditions were found to be concomitant. Even with equal opportunity for free dental prophylaxis and treatment, the child of well-to-do parents has a decided advantage over a child of poor parents. This is not due solely to superior nutrition, but mainly to the desire and actual practice of timely dental attention on the part of those who can afford to secure private and skilled service.

Sixty-one and seven-tenths per cent of the 1,341 boys and 67.1 per cent of the 1,576 girls included in the survey were found without dental decay. This indicates a slight, and usual, superiority in oral hygiene among the girls, due probably to pride in appearance and possibly to the more sheltered positions of the girls in life.

Of the 826 thyroid-normal boys, 63 per cent had teeth without signs of decay, while a slightly smaller percentage (60 per cent) of the 515 thyroid-enlarged boys were also free from dental defects. Among the girls, 66.8 per cent of the normal and 67.3 per cent of the thyroid-enlarged individuals had no evidence of dental decay. These figures indicate no decided differences in the conditions of the two general groups.

In Table 2 certain age groupings have been made for more vivid statistical display. Thus, the ages of 9 and 10, 11 and 12, 13 and 14, and 15 years and over, have been combined, respectively. Furthermore, the enlargements have been shown as slight and marked, the former comprising the slight forms of Table 1, while the latter includes the moderate and marked enlargements of the same table.

Teeth without decay.—Among the 9 and 10 year and the 11 and 12 year groups of boys, normal teeth were more frequent among thyroid-normal children. However, among the 13 and 14 year and

15 and over groups, sound teeth were slightly more frequent among the thyroid-enlarged boys.

Among the girls of the 9 and 10 year group the percentage having sound teeth were the same among the thyroid-normal and thyroid-enlarged. In the 11 and 12 year and the 13 and 14 year groups the advantage in normal teeth was with the thyroid-enlarged girls. Among those over 15 years of age the thyroid-normal girls had a slight superiority in normal teeth over the thyroid-enlarged individuals.

Dental caries.—Dental decay was noted slightly more frequently among boys than girls, the marked degree being more prevalent among both than the slight. Thus, 13.2 per cent of the boys and 11.8 per cent of the girls had slight decay, whereas 25 per cent of the boys and 21.1 per cent of the girls had marked decay.

Slight dental decay.—Slight decay of 1 and 2 teeth was more prevalent among boys with thyroid enlargement. Among the girls slight decay of 1, 2, 3, 4, and more than 4 teeth was more prevalent among the thyroid-enlarged. However, the differences are small and neither noteworthy nor constant.

In the 9 and 10 year group slight dental decay was more frequent among the thyroid-normal boys. In the remaining groups the excess of slight decay was found among the boys with thyroid enlargement.

In the 9 and 10 year group more of the thyroid-normal girls had slight decay than did those with enlarged thyroids. In the 11 and 12 year group of girls, and also in the 15 year and over group, slight decay was more frequent among the thyroid-enlarged. In the 13 and 14 year group the same percentages of slight decay prevailed among the thyroid-normal and the thyroid-enlarged girls.

Marked dental decay.—A further study of Table 2 discloses the differences in the amount of marked dental caries in the two groups under consideration. It will be noted that the percentage of marked decay among the thyroid-enlarged boys both of the 9 and 10 year group and of the 11 and 12 year group is higher than the percentage among the thyroid-normal boys. However, in the succeeding groups the excess is reversed. Marked decay occurs more frequently among the thyroid-normal boys of the 13 and 14 year group, and also of the 15 year and over group.

Among the girls, marked dental decay occurs 38.1 per cent more frequently among the thyroid-enlarged individuals of the 9 and 10 year group. In the 11 and 12, 13 and 14, and 15 and over groups the excess of marked dental decay occurs among the thyroid-normal girls.

From the foregoing observations it will be noted that there is no constancy of trend in any of the age groups or for either sex.

With relatively few exceptions the differences between percentage occurrence of slight and marked dental decay in thyroid-normal and thyroid-enlarged children are slight and insignificant.

Dental decay and degree of thyroid enlargement.—Whether or not marked thyroid enlargement is more frequently associated with dental decay than the lesser degrees of enlargement is another point concerning which some information is available in Table 2. Because of the relatively few marked enlargements found among the boys, little information concerning this point can be obtained from the portion of the table dealing with the boys. However, an examination of the data relating to the girls shows that both slight and marked dental decay are less frequent in girls with marked thyroid enlargement than among thyroid-normal girls or those with slight thyroid enlargement. Therefore, it may be concluded, so far as this group is concerned, that dental decay exerts no marked effect upon size of thyroid enlargement.

TONSILS

The statistical data relating to the conditions of the tonsils in the children examined have been set forth in Table 3. In this table the tonsillar conditions have been divided according to normality, absence, enlargement, and cryptic degeneration. The thyroid enlargements have been shown as slight and marked. As in Table 1 there have been age groupings in order to facilitate the statistical interpretation.

Normal tonsils.—Normal tonsils were found to a greater extent among both boys and girls with thyroid enlargement than among those with normal thyroids, 42.7 per cent among the boys and 40.2 per cent among the girls. Thus, 18.4 per cent of the tonsils examined in 515 thyroid-enlarged boys appeared to be normal, whereas 12.9 per cent of the tonsils of 826 thyroid-normal boys were normal. Normal tonsils were found in 19.7 per cent of the 927 thyroid-enlarged and in 13.9 per cent of the 649 thyroid-normal girls who were examined.

Normal tonsils were most frequent among the 16-year-old boys and the 13-year-old girls. They were least frequent among the 13-year-old boys and the 10-year-old girls. It is also interesting to note that normal tonsils were found with slightly greater frequency among thyroid-normal and thyroid-enlarged girls than among boys.

Tonsils removed.—More of the boys than girls had been subjected to operation for removal of tonsils. Thus, 36.4 per cent of the thyroid-normal and 33.8 per cent of the thyroid-enlarged boys were without tonsils, a slight difference in favor of the former. Among the thyroid-normal girls, 31.6 per cent had had their tonsils removed, whereas a slightly smaller number, 29.3 per cent, of the thyroid-enlarged girls had had similar operations. According to the

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findings, tonsil removal was more frequent among the younger children.

When the differences between the several groups of thyroid-normal and thyroid-enlarged children are considered with regard to the absence of tonsils through operation, some interesting facts are gleaned from Table 3. Thus, among boys in all four age groups a slightly greater number of tonsils had been removed among the thyroid-normal than among the thyroid-enlarged. However, the differences are relatively small and inconstant in trend. Absence of tonsils was also noted more frequently among the thyroid-normal girls in the first three age groups. In girls aged 15 years and over, however, the tonsils had been removed more frequently among those with thyroid enlargement. While differences, often in favor of the thyroid-normal individuals, are noted in this part of the study, the evidence can not be said to be particularly striking or significant. Nor can the removal of the tonsils be advocated as an aid to goiter prevention solely on the basis of these findings.

Enlargements of tonsils.—When the observations concerning the tonsils were made, 3 degrees of enlargement, "slight," "moderate," and "marked," were recorded. However, because of the comparatively few enlargements of each size, the numbers have been combined for ease of statistical analysis. A study of Table 3 (part of table giving totals) shows that enlarged tonsils were more frequent among the children with normal thyroids.

When the occurrence of tonsillar enlargement is considered by age groups it will be noted that the thyroid-normal boys of the 11 and 12 year group and also the 15 year and over group have enlarged tonsils more frequently than those with enlarged thyroids. In the 9 and 10 year group and again in the 13 and 14 year group tonsillar enlargement is more frequent among the thyroid-enlarged boys.

Enlargement of the tonsils is more frequent among the thyroid-normal girls in each of the four age groups shown in Table 3. However, the discrepancies are not uniform. While some of the evidence concerning tonsillar enlargement is suggestive, it is too uneven in trend to be convincing. If anything, the data here presented suggest that enlargement of the tonsils is more often than not associated with normal thyroid glands.

Cryptic tonsils.—Presumably the tonsils included in this grouping had a pathological status and were capable of exerting a deleterious influence upon such organs as the thyroid. The percentage of cryptic tonsils among the thyroid-normal boys exceeded similar conditions among individuals with enlarged thyroids. Among the girls, cryptic tonsils were more frequent among those with enlarged thyroids.

In the separate age groups, cryptic tonsils were more frequent among the thyroid-enlarged boys of the 9 and 10, 11 and 12, and the

15 and over groups, though the excess rates are small and uneven in trend. In the 13 and 14 year group the thyroid-normal boys had a slightly greater percentage of cryptic tonsils than the thyroid-enlarged.

Cryptic tonsils were encountered oftener among the thyroid-enlarged girls of the 9 and 10, 13 and 14, and 15 and over age groups than among the thyroid-normal individuals of the same ages. In the 11 and 12 year group of girls, however, cryptic tonsils were present more frequently among those with normal thyroids.

When these conflicting data are considered, it is apparent that there is no consistent or convincing evidence of relationship between cryptic tonsils and thyroid status.

Tonsillar conditions and degree of thyroid enlargement.—It is also interesting to learn, if possible, whether marked thyroid enlargements are more frequently associated with certain tonsillar abnormalities than are slight enlargements. Certainly there are no consistent trends in Table 3 which might be interpreted as indicative of a relationship between enlarged or cryptic tonsils and slight or marked thyroid enlargement. There are, however, certain facts that should be pointed out.

As the number of marked thyroid enlargements among the boys was not great, the percentages derived from the calculations for enlarged and cryptic tonsils are of no considerable value. On the other hand, the data available from observations of tonsil status among the girls offer a little better indication of trend. It will be seen that 39.9 per cent of the girls with marked thyroid enlargement and 42.4 per cent of those with slight enlargement had enlarged tonsils, while 47.3 per cent of the thyroid-normal girls had enlarged tonsils.

The percentage of girls having cryptic tonsils was greatest among those with slight thyroid enlargement, 9 per cent, and least among the thyroid-normal individuals, with 7.2 per cent. Of the girls with marked thyroid enlargement 8.3 per cent had cryptic tonsils. From these data it will be seen that in this group, marked thyroid enlargements are not associated with enlarged or cryptic tonsils as often as are slight enlargements. It may be concluded, therefore, that degree of enlargement was not dependent, in the present series, upon tonsillar conditions.

STIMMARY

- 1. Examinations were made of the teeth and tonsils of 1,341 white boys and 1,576 white girls in 8 schools in Cincinnati for the purpose of determining whether there was a relationship between potential foci of infection and thyroid enlargement.
- 2. Records were kept of slight and marked thyroid enlargements as well as of slight and marked decay of teeth. In addition, there were

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recorded the number of apparently normal tonsils, the absence of tonsil through operation, hypertrophy, and cryptic degeneration.

- 3. Slight thyroid enlargements prevailed to the extent of 37.2 per cent among the boys and 50.4 per cent among the girls. Both moderate and marked enlargements were approximately seven times more prevalent among the girls than among the boys.
- 4. In the group studied, slight and marked dental decay is no more characteristically associated with thyroid enlargement than with normal thyroid status. Furthermore, the degree of thyroid enlargement appears not to be dependent upon the amount of dental decay.
- 5. Normal tonsils were found more frequently among both boys and girls with thyroid enlargement than among those with normal thyroids.
- 6. Approximately one-third of the children examined had had their tonsils removed by operation. A slightly greater percentage of thyroid-normal children had had their tonsils removed than those in whom the thyroid was enlarged at the time of the examination. While differences may be noted in the several age groups as regards absence of tonsils, removal often being associated with a higher percentage of thyroid-normal individuals, the evidence is suggestive rather than striking.
- 7. Enlargement of the tonsils was found more frequently among boys and girls without thyroid enlargement. While some of the evidence concerning hypertrophy of the tonsils in the several age groups is suggestive, the data are too uneven in trend to be convincing.
- 8. There was no consistent evidence of correlation between cryptic fonsils and thyroid status.
- 9. Marked thyroid enlargements among the girls are not associated with enlarged or cryptic tonsils as often as are slight thyroid enlargement. The size of the thyroid enlargement is probably independent of tonsillar or dental conditions.
- 10. Based upon the material gathered during the present investigation, it is believed that there is no definite relation between thyroid status and potential foci of infection presumably located in decayed teeth and enlarged or cryptic tonsils.

COMMENT

The number of children included in the present survey was small and the observations were subject to manifest limitations. Before the relationship between thyroid enlargement and potential foci of infection in the teeth and tonsils can be regarded as definitely determined it is desirable that additional studies be made in other sections of the country on a more comprehensive scale and possibly with different methods. Nevertheless it is felt that in so far as the present study is concerned, such a relationship is non-existent.

Despite these negative findings, neglect of oral hygiene is not advocated. On the contrary, renewed efforts to insure as nearly perfect denture as possible, through appropriate nutritional guidance and practice, as well as competent dental prophylaxis and treatment, are recommended and urged. Moreover, appropriate treatment for enlarged and diseased tonsils is likewise advised.

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Table I.- Number and percentage of normal and enlarged thyroids among 1,341 white boys and 1,576 white girls in the Cincinnati public schools, according to sex, age, and degree of thyroid enlargement

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Thyrold status	All	ages	11		12		13		14		15			
•	Boys	Clirls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls		
Manager Manager Street St. Not one presence	NUMBER OF NORMAL AND ENLARGED THYROIDS													
Total	1,341	1,576	155	156	217	229	273	256	305	331	254	426		
Normal Enlarged Slight Moderate Marked	826 515 498 14 3	649 927 794 109 24	85 70 68 2	65 91 84 7	136 81 81	101 128 121 6 1	159 114 110 3	102 154 139 11 4	185 120 116 4	139 192 157 25 10	169 85 79 4 2	155 271 217 46 8		
	*************		PEB	CENTAG	E OF N	ORMAL	AND EN	LARGEI	THYRO	OIDS				
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100. 0	100. 0	100.0	100.0	100.0		
Normal Enlarged Slight Moderate Marked	61. 6 38. 4 37. 2 1. 0 0. 2	41. 2 58. 8 50. 4 6. 9 1. 5	54. 9 45. 1 43. 8 1. 3	41. 6 58. 4 53. 9 4. 5	62.7 37.3 37.3	44. 1 55. 9 52. 9 2. 6 0. 4	58. 2 41. 8 40. 3 1. 1 0. 4	39. 8 60. 2 54. 3 4. 3 1. 6	60. 7 39. 3 38. 0 1. 3	42. 0 58. 0 47. 5 7. 5 3. 0	66. 5 33. 5 31. 1 1. 6 0. 8	36. 4 63. 6 50. 9 10. 8 1. 9		

Table 2.—Numbers and percentages of individuals having no dental decay, slight, and marked deutal decay among 1,341 white boys and 1,576 white girls in the Cincinnati public schools, according to ages of children and degrees of thyroid enlargement

Dental condition													
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ALL AGES													
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o and 10 years													
Total Normal Enlarged Slight Marked	90 53 37 37	47 31 16 16	18 11 7 7	25 11 14 14	100. 0 100. 0 100. 0 100. 0	52. 3 58. 6 43. 2 43. 2	20. 0 20. 7 18. 9 18. 9	27. 8 20. 7 37. 9 37. 9					
	·	L	11 AND 1	2 YEARS	·		<u> </u>						
Total Normal Enlarged Slight Marked	372 221 151 149 2	227 145 82 82	56 25 31 30 1	89 51 38 37 1	100. 0 100. 0 100. 0 100. 0 100. 0	61. 0 65. 6 54. 4 55. 0	15. 1 11. 3 20. 5 20. 1 50. 0	23.9 25.1 25.1 21.9 50.0					
			13 AND 1	4 YEARS		Transference (Control of the Control	and the second s	ind debits and resident to the See					
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			15 YEARS	AND OVER			******************	** **************** A se					
Total Normal Enlarged Slight Marked	301 208 93 87 6	191 131 60 55 5	31 20 14 14	76 57 19 18	100. 0 100. 0 100. 0 100. 0 100. 0	63, 4 63, 0 64, 5 63, 2 83, 4	11.3 9.6 15.1 16.1	25, 3 27, 4 20, 4 20, 7 18, 6)					

Table 2.—Numbers and percentages of individuals having no dental decay, slight, and marked dental decay among 1,341 white boys and 1,516 white girls in the Cincinnati public schools, according to ages of children and degrees of thyroid enlargement—Continued

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	Girls												
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ALL AGES													
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Table 3.—Numbers and percentages of certain tonsillar conditions among 1,34 white boys and 1,576 white girls in the Cincinnati public schools, according e age and degree of thyroid enlargement

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l	Number of t						Perce	ntage of	age of fonsils		
Thyroid status	Total	Nor- mal	Re- moved	En- larged	Cryp-	Total	Nor- mal	Re- moved	En- larged	Civi tie-	
			desperans reconstructions	ALL AG	ES	Carl trius manuscript	and hands assume	AND THE PERSON	,		
Total	1,341	202	474	558	107	100. 0	15. 1	35 3	41.6	8.0	
Normal Enlarged Slight Marked	826 515 497 18	107 95 90 5	300 174 172 2	352 206 195 11	67 40 40 0	100. 0 100. 0 100. 0 100. 0	12.9 18.4 18.0 27.8	36. 4 33. 8 31. 6 11. 1	42.6 40.0 39.3 61.1	8. 1 7. 8 8. 1	
·		411111111111111111111111111111111111111	9	AND 10 Y	EARS	- entre de la constitución de la					
Total	90	12	46	27	5	100. 0	13 3	51. 2	30. 0	5, 5	
Normal Enlarged Slight Marked	53 37 37	6 6 6	31 15 15	14 13 13	2 3 3	100 0 100 0 100 0	11.3 16.2 16.2	78, 5 40, 6 40, 6	26, 4 35, 1 35, 1	3. 8 8. 1 8. 1	
			11	AND 12	EARS	!!	dentification and as	and the state of t	manufacture and the	um permeter express	
Total	372	55	140	143	34	100. 0	14.8	37.6	38, 5	0. 1	
Normal Enlarged Slight Marked	221 151 149 2	25 30 29 1	84 56 56	92 51 70 1	20 11 14	100. 0 100. 0 100. 0 100. 0	11.3 19.9 19.5 50.0	38. 0 37. 1 37. 6	41. 6 33. 8 33. 5 50. 0	9, 0 9, 2 9, 4	
***************************************			13	AND 14 1	EARS			j ngapitalpina ingan pram		Adquitt nutilities a	
Total	578	81	183	273	41	100.0	14. 0	31.8	47. 1	7. 1	
Normal Enlarged Slight Marked	314 234 225 9	44 37 35 2	110 73 71 2	162 111 106 5	28 13 13	100. 0 100. 0 100. 0 100. 0	12. 8 15. 8 15. 6 22. 2	32. 0 31. 2 31. 6 22. 2	47. 1 47. 4 47. 1 55. 6	8. 1 5. 6 5. 7	
The proof type - with equivalent within the dispersion of the same			15 Y	ears an	DOVER	in-mounthuitmens vei		in nama	termanti ara ti	A annum	
Total	301	54	105	115	27	100.0	17. 9	34. 9	38. 2	9.0	
Normal Enlagged Slight Marked	208 93 86 7	32 22 20 2	75 20 30	84 31 26 5	17 10 10	100. 0 100. 0 100. 0 100. 0	15. 4 23. 7 23. 3 28. 6	36. 0 32. 3 34. 9	40 4 33. 3 30. 2 71. 4	8. 2 10. 7 11. 6	

Table 3.—Numbers and percentages of certain tonsillar conditions among 1,341 white boys and 1,576 white girls in the Cincinnati public schools, according to age and degree of thyroid enlargement—Continued

GIRLS

		Nun	iber of to	onsils			Perce	ntage of	tonsils				
Thyroid status	Total	Nor- mal	Re- moved	En- larged	Cryp- tie	Total	Nor- mal	Re- moved	En- larged	Cryp-			
ALL AGES													
Total	1, 576	273	477	697	129	100. 0	17. 3	30. 2	44. 3	8. 2			
Normal Enlarged Slight Marked	649 927 794 133	90 183 146 37	205 272 210 32	. 307 . 390 337 53	47 82 71 11	100. 0 100 0 100. 0 100. 0	13. 9 19. 7 18. 4 27. 8	31. 6 29. 3 30. 2 24. 0	47. 3 42. 1 42. 4 39. 9	7. 2 8. 9 9. 0 8. 3			
-			0	AND 10 1	TEARS	,		·		-			
Total	95	13	33	44	5	100.0	13. 7	34.8	46. 3	5. 2			
Normal Enlarged Slight Marked	57 38 35 3	8 5 5	24 9 9	24 20 17 3	1 4 4	100. 0 100. 0 100. 0 100. 0	14. 0 13. 2 14. 3	42. 1 23. 7 25. 7	42. 1 52. 6 48. 6 100. 0	1.7 10.5 11.4			
11 AND 12 YEARS													
Total	385	56	128	168	33	100.0	14.6	33. 3	43. 6	8. 5			
Normal Enlarged Slight Morked	166 219 205 14	17 39 33 6	56 72 71 1	75 93 87 6	18 15 14 1	100. 0 100. 0 100. 0 100. 0	10. 2 17. 8 16. 1 42. 9	33. 8 32. 9 34. 7 7. 1	45. 2 42. 5 42. 4 42. 8	10 8 6.8 6.8 7.1			
	·	·	13	AND 14 Y	EARS			·					
Total	587	109	174	261	43	100.0	18.6	29. 6	44. 5	7. 5			
Normal Enlarged Slight Marked	241 346 296 50	32 77 63 14	79 95 84 11	117 144 124 20	13 30 25 5	100. 0 100. 0 100 0 100. 0	13.3 22.3 21.3 28.0	32. 8 27. 5 28. 4 22. 0	48. 5 41. 6 41. 9 40. 0	5. 4 8. 6 8. 4 10. 0			
**************************************	Topo plane, at reasons, risolarisadis.		15	YEARS AI	id over	· · · · · · · · · · · · · · · · · · ·		***************************************	· · · · · · · · · · · · · · · · · · ·	in the second			
Total	509	95	142	225	47	100.0	18. 7	27. 9	44. 2	9. 2			
Normal Enlarged Slight Marked	185 324 258 66	33 62 45 17	46 96 76 20	92 133 109 24	14 33 28 5	100. 0 100. 0 100. 0 100. 0	17. 9 19. 1 17. 5 25. 8	24. 9 29. 7 29. 5 30. 3	49. 7 41. 0 42. 2 36. 4	7, 5 10, 2 10, 8 7, 5			

COURT DECISIONS RELATING TO PUBLIC HEALTH

Legislature has power to change tuberculosis hospital district.—(Massachusetts Supreme Judicial Court; Essex County v. City of Newburyport, 150 N. E. 234; decided January 7, 1926.) By a 1916 law, Essex County, in common with other counties, was required to provide adequate hospital care for certain tuberculous persons. The county constructed a hospital and the expense of same was assessed upon cities and towns in the county. Certain cities, not including Newburyport, were exempted from all liability to contribute to the county hospital. By a law passed in 1917, the city of

march 26, 1926 572

Newburyport was also exempted from such liability. In 1924 a statute was enacted which provided that all the cities and towns in Essex County should constitute the Essex County tuberculosis hospital district, and the exemption from liability to contribute to the county hospital, formerly enjoyed by certain cities, including Newburyport, was expressly repealed. In an action by Essex County to recover the assessment required to be paid by the city of Newburyport to the county as specified by the 1921 statute, the supreme court held that the legislature could enact a law again including the defendant city in the tuberculosis hospital district and that the particular law in question was constitutional. A portion of the court's opinion follows:

The original unit established in the northeastern part of the Commonwealth for the administration of justice, the support of jails and houses of correction. and the registration of deeds and the transaction of other kindred public affairs was the county of Essex. When the legislature came to deal with the problem of proper provision for patients suffering from tuberculosis in Essex County in 1916 four cities were omitted from the district required to contribute for the cost of the hospital. It seems plain that at that time the whole county might have been made a unit for that purpose by the legislature and those four cities as well as all other cities and towns of the county required to contribute to that cost. The omitted cities did not have the same right to share in the benefits of the hospital as did those within the district. St. 1916, c. 286, now G. L. c. 111, sec. 88. By Sp. St. 1917, c. 107, in addition to the other four cities the defendant was exempted from the district. That that statute did not constitute a contract between the defendant and the Commonwealth is settled by Boston, Pet'r, 221 Mass. 468, 109 N. E. 389; Chelsea v. City of Boston, 245 U. S. 626, 38 S. Ct. 10, 62 L. Ed. 517. There is no sound constitutional ground for holding that the legislature could not do in 1924 with reference to the hospital district in Essex County that which it plainly had the right to do in 1916. Sp. St. 1917, c. 107, whereby the defendant was exempted from the provisions of St. 1916, was subject to change, modification, or repeal like any other statute. By St. 1924, c. 443, the defendant was reincorporated into the hospital district with whatever privileges and rights flow therefrom.

We are unable to perceive anything arbitrary, despotic, or constituting a flagrant misuse of legislative power. Such characteristics would render legislation contrary to constitutional guaranties. But they do not exist in St. 1921, c. 443.

Membership on city school committee and position of school medical inspector held incompatible.—(Massachusetts Supreme Judicial Court; Barrett v. City of Medford, 150 N. E. 159; decided January S, 1926.) The plaintiff, while a member of the school committee of the city of Medford, was appointed by the said committee as medical inspector for the schools. He took no part officially as a member of the school committee in his appointment as medical inspector. After the plaintiff had served for several years as medical inspector, and at the same time as a member of the school committee, the mayor refused to approve the pay-roll item covering plaintiff's salary as medical inspector. The plaintiff continued to act as medical inspector for a period of several months without salary and then brought an action

against the city to recover for the services rendered as such inspector. While there was no statute, ordinance, or rule directly forbidding the appointment of a school-committee member as medical inspector, yet the supreme court decided that the two positions were inconsistent and denied recovery. The following is a portion of the opinion:

Having in mind that a member of either branch of a city council or of a municipal board of a city is not permitted to be personally interested directly or indirectly in a contract made by the city council, or other branch thereof, or by such board, or by authority derived therefrom, in which the city is an interested party, G. L. c. 268, sec. 9; that no "member of the city council shall, during the term * * * be eligible to any office the salary of which for which he was chosen is payable by the city," G. L. c. 39, sec. 8; that a board of health of a city, who are authorized to appoint a quarantine physician under an ordinance giving him a compensation fixed by the city council, may not appoint one of their own members such quarantine physician, Gaw v. Ashley, 195 Mass. 173, 80 N. E. 790, 122 Am. St. Rep. 229; that no member of a school committee shall be eligible to serve as teacher or superintendent in the public schools, St. 1904, c. 173; we think a school committee, in the absence of a statute permitting it, can not elect one of themselves to the salaried office of school physician. duties he is to perform as physician are incompatible with the supervisory duties which as a member of the committee he should exercise over the incumbent of the office of school physician. Consistently he can not be master and servant.

Again, under the rules of the committee and G. L. c. 71, sec. 59, the superintendent of schools, under the direction of the school committee, is the "executive officer of the committee" who, among other services, has the duty to nominate for election "all principals, supervisors, teachers, janitors * * * and other school employees, make recommendations to the school committee regarding their duties, salaries, and dismissal." It is to be further observed that the superintendent of schools may hold his office by the deciding vote of the member whom he may subsequently nominate for school physician, with an accompanying recommendation of a stated salary for the incumbent of that office.

Examinations for Entrance into the Regular Corps of the Public Health Service

Examinations of candidates for entrance into the Regular Corps of the United States Public Health Service will be held at the following-named places on the dates specified:

Washington, D. C., May 3, 1926.

Chicago, Ill., May 3, 1926.

New Orleans, La., May 3, 1926.

San Francisco, Calif., May 3, 1926.

Candidates must be not less than 23 nor more than 32 years of age, and they must have been graduated in medicine at some reputable medical college, and have had one year's hospital experience or two years' professional practice. They must pass satisfactorily, oral, written, and clinical tests before a board of medical officers and undergo a physical examination.

Successful candidates will be recommended for appointment by the President, with the advice and consent of the Senate.

Requests for information or permission to take this examination should be addressed to the Surgeon General, United States Public Health Service, Washington, D. C.

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

Reports for Week Ended March 20, 1926

ALABAMA	Cases	CALIFORNIA	
Cerebrospinal meningitis	1	Cerebrospinal meningitis:	Cases
Chicken pox	70	Los Angeles	
Dengue	1	Ontario	
Diphtheria	17	San Francisco.	. 2
Influenza	1.607	Chicken pox	. 394
Lethargic encephalitis		Diphtheria	132
Malaria		Influenza	. 73
Measles		Lethargic encephalitis:	, ,
Mumps		San Jose	. 1
Pellagra		Tulare County	. 1
Pneumonia		Measles	149
Scarlet fever	19	Mumps	
Smallpox		Poliomyelitis:	
Tuberculosis		Long Beach	. 1
Typhoid fever		Los Angeles	
Whooping cough	29	Los Angeles County	. 1
ARIZONA		Oakland	î
Chicken pox	. 3	San Jose	
Diphtheria		Scarlet fever	152
Influenza		Smallpox:	
Leprosy		Los Angeles	. 37
Mumps		Los Angeles County	13
Pneumonia	. 1	Oakland	20
Scarlet fover.	6	Senttering	
Trachoma	. 1	Typhoid fever	
Tuberculosis	27	Whooping cough	77
Whooping cough.	. 1	TT MOOTHING TOURS OF THE SERVICE HE	"
		COLORADO	
ARKANSAS		Chicken pox	33
Chicken pox	29	Diphtheria	41
Dengue	. 1	German measles	2
Diphtheria	3	Impetigo cantagiosa	1
Hookworm disease		Influenza	5
Influenza	1, 248	Measles	5
Malaria	64	Mumps	5
Measles	54	Pneumonia	5
Mumps	26	Poliomyelitis	ĩ
Pellagra.	7	Scarlet fever	51
Scarlet fever	. 12	Smallpox	1
Smallpox		Tuberculosis	16
Trachoma	7	Typhoid fever	10
Ruberculosis	48	Vincent's angina	2
Whooping cough	35	Whooping cough	65

(574)

CONNECTICUT	G	IDAHO	
Carrate and a state	Cases	Combination land and the citizen	(1
Cerebrospinal meningitis			Cases 2
Chicken pox		Kellogg	5
Diphtheria		Post Falls	1
German measles		Weippo	
Influenza.		Chicken pox	1 3
Lethargic encephalitis		Diphtheria	ა 5
Measles		Influenza	
Mumps		Measles	8
Pneumonia (broncho)		Mumps.	18
Pneumonia (lobar)		Pneumonia (broncho)	4
Scarlet fever		Scarlet fever	35
Septic sore throat		Smallpox:	
Tuberculosis (all forms)		Emmett	27
Typhoid fever		Scattering	12
Whooping cough	113	Typhoid fever	2
DELAWARE		Whooping cough	9
Chicken pox.	2	ILLINOIS	
Influenza	4		
Measles		Cerebrospinal meningitis—Tazewell County.	1
Pneumonia		Diphtheria	85
		Influenza	692
Scarlot fever	2	Lethargic encephalitis—Lee County	1
Tuberculosis		Measles	977
Whooping cough	4	Pneumonia	984
DISTRICT OF COLUMBIA		Scarlet fever	468
Chicken pox	37	Smallpox	31
Diphtheria		Tuberculosis	264
Measles		Typhoid fever	IJ
Pneumonia		Whooping cough	180
Scarlet fever	19		
Tuberculosis		INDIANA	
Whooping cough		Cerebrospinal meningitis	1
		Chicken pox	105
. FLORIDA		Diphtheria	24
Cerebrospinal meningitis	. 1	Influenza	517
Chicken pox.		Measles	
Diphtheria.		Mumps	3
German measles		Pneumonia	55
Influenza		Poliomyelitis	1
Malaria		Scarlet fever	246
Measles		Smallpox	166
Mumps.		Tuberculosis	50
Pneumonia		Whooping cough	150
Scarlot fever			
Smallpox		KANSAS	
Tuberculosis		Chicken pox	89
Typhold fever		Diphtheria	11
Typhus fever		German measles	7
Whooping cough		Influenza	54
Winothing Courses	. 10	Lethargic encephalitis	1
GEORGIA		Measles	501
Anthrax	. 1	Mumps	37
Cerebrospinal meningitis	. 1	Pellagra	1
Chicken pox	. 60	Pneumo nia	63
Diphtheria		Scurlet fever	95
Hookworm disease	. 1	Septie sore throat	1
Influenza	. 757	Smallpoy	21
Malaria		Tetanus	1
Mensles		Tuberculosis	49
Mumps		Typhoid fever	3
Pneumonia		Whooping cough	173
Scarlet fever			7.00
Septic sore throat	-	LOUISIANA	
Smallpox		Diphtheria	. 12
		1	480
Tuberculosis	. 32	Influenza	472

LOUISIANA—continued	1	MINNESOTA	
LOUISIANA COMMINICA	ases		ases
Pneumonia	56	Chicken pox	141
Scarlet fever	10	Diphtheria	28
Smallpov	88	Influenza	3
Tuberculosis	31	Measles.	289
Typhoid fever	8	Pneumonia	2
MAINE	1	Poliomyelitis.	1
Ccrebrospinal meningitis	1	Scarlet fever	335
Chicken pox	43	Smallpox	a
Diphtheria	4	Tuberculosis	52
German measles	16	Typhoid fever.	1
Influenza	125	Whooping cough	81
Measles	283	MISSISSIPPI	
Mumps	47	Diphtheria	4
Pneumonia	34	Influenza	052
Scarlet fever	45	Scarlet fever	5
Tetanus	1	Smallpox	10
Tuberculosis	9	Typhoid fever	3
Vincent's angina	2		
Whooping cough	35	MISSOURI Chicken now	85
	•	Chicken pox	59
Chicken por	82	Diphtheria	58
Chicken pox	25	Influenza	651
Diphtheria	1	Measles Mumps	71
German measles	2	Pneumonia	19
Influenza	445	Rabies (in animals)	5
		Scarlet fever	309
Measles	150	Smallpox	14
Mumps	100		2
Ophthalmia neonatorum	99	TrachomaTuberculosis	30
Penumonia (broncho)			
Pneumonia (lobar)	71	Typhoid fever.	3
Scarlet fever	50	Whooping coagh	59
Septic sore throat	3	MONTANA	
Tuberculosis	43	G	
Typhoid fever	8	Cerebrospinal meningitis.	1
Whooping cough	49	Chicken pox	25
MASSACHUSETTS		Diphtheria	2
Anthrax	1	German meastes	43
Cerebrospinal meningitis	2	Influenza	134
Chicken pox	151	Measles	20
Conjunctivitis (suppurative)	4	Mumps	22
Diphtheria	66	Scarlet fever	60
German measles	246	Smallpox	8
Influenza	272	Tuberculosis	2
Lethargic encephalitis	4	Whooping cough	6
Measles		NEBRANKA	
Mumps.	95	Chicken pox	19
Ophthalmia neonatorum	42	Diphtheria	4
Pneumonia (lobar)	237	Influenza	2
Polioniyelitis	1	Measles	20
Scarlet fover	281	Mumps	8
Seplic sore throat	1	Pneumonia	4
Trachoma.	1	Scarlet fever	46
Tuberculosis (pulmonary)	109	Smallpox	18
Tuberculosis (other forms)	24	Tuberculosis	12
Typhoid fever	5	Whooping cough	16
Whooping cough	520		
MICHIGAN	1	NEW JERSEY	
Diphtheria	126	Cerebrospinal meningitis	4
Measles	1 , 698	Chicken pox	173
Pneumonia	364	Diphtheria	66
Scarlet fever	385	Influenza	151
Smallpox		Malaria.	1
Tuberculosis	. 60	Measles-Trenton.	183
Florence and description	. 7	Pneumonia	227
Typhoid fever		* *************************************	
Whooping cough	264	Poliomyelitis	8

English and the second		I anna an	
NEW JERSEY—continued	Cases	OREGON	Cases
Scarlet fever	187	Cerebrospinal meningitis	1
Typhoid fever	4	Chieken pox	
Whooping cough	79	Diphtheria	
NEW MEXICO		Influenza.	
Chicken pox	9	Measles	
Conjunctivitis		Mumps Pneumonia	
Diphtheria		Rocky Mountain spotted fever	
Influenza		Scarlet fever	
Measles	1	Smallpox:	-
Mumps	14	Linn County	17
Pneumonia		Scattering	21
Rabies (in animals)	4	Tuberculosis	5
Scarlet fever	2	Whooping cough	44
Septic sore throat		PENNSYLVANIA	
Smallpox			
Tuberculosis	19	Anthrax—Philadelphia	1
vv nooping cought	19	Cerebrospinal meningitis—Minersville	
NEW YORK		Chicken pox	
(Exclusive of New York City)		Diphtheria	
Chicken pox	217	German measles Impetigo contagiosa	45 7
Diphtheria		Lethargic encephalitis:	•
German measles		Bethlehem	1
Influenza	3, 352	Philadelphia	î
Lethargic encephalitis	4	Measles	-
Measles.		Mumps	
Mumps		Ophthalmia neonatorum—Philadelphia	3
Pneumonia		Pneumonia	153
Poliomyelitis		Scables	5
Scarlet fever		Scarlet fever	
Septic sore throat		Tetanus-Woodlawn	
Smallpox		Tuberculosis	82
Typhoid fever		Typhoid fever	
Vincent's angina		Whooping cough	376
Whooping cough		RHODE ISLAND	
		Chicken pox	2
NORTH CAROLINA		Diphtheria	
Chicken pox.		German measles	
Diphtheria		Influenza	
German measles		Measles	165
Measles		Mumps	7
Searlet fever		Scarlet fever	
Smallpox		Septic sore throat	
Typhoid fover		Tuberculosis	
Winoping cough		Whooping cough	4
ORLAHOMA		SOUTH DAKOTA	
ORLABOMA		Chicken pox	10
(Exclusive of Tulsa and Oklahoma City	7)	Diphtheria	
Chicken pox	. 32	Measles	
Diphtheria.		Mumps	
Induenza	. 2, 511	Pneumonia	6
Malaria	- 9	Scarlet fever	. 41
Measles.	24	Smallpox	. 3
Mumps		Whooping cough	. 2
Pellagra		TENNISSEE	
Proumonia.		•	4
Scarlet fever		Chicken pox	
Smallpox		Diphtheria	
Typhoid fever		Influenza Malaria	672
Whooping cough	. or	1 441 CHILLY	. 0
'' ! Deaths	. ,		

TENNESSEE-continued	_	washing ton-continued	G
	Cases		Cases
Measles.	249	Pneumonia	73
Mumps		Scarlet fever	. 10
Pellagra		Smallpox:	11
Pneumonia		Chelan County	
Scarlet fever.		Seattle	
Smallpox		Tacoma	
Trachoma		Scattering Tuberculosis	
Tuberculosis		Typhold fever	
Typhoid fever		Whooping cough	
Whooping cough	10	WEST VIRGINIA	
TEXAS		Diphtheria	
Chicken pox	. 58	Measles	
Diphtheria	38	Scarlet fever	
Influenza	636	Typhoid fever	
Measles	14		
Mumps	64	" WISCONSIN Milwaukee:	
Pellagra	2		101
Pneumonia		Chicken pox	
Scarlet fever	35	Diphtheria German mensles	
Smallpox		Indirenza	
Tuberculosis	21	Measles	114
Typhoid fever	1	Mumps.	
Whooping cough	50	Pneumonia	
UTAN		Scarlet fever	
UTAIL		Tuberculosis	
Cerebrospinal meningitis-Salt Lake City	. 1	Typhoid fever	
Chicken pox	15	Whooping cough	
Diphtheria		Scattering:	
Influenza		Cerebrospinal meningitis	. 1
Mumps		Chicken pox.	
Pneumonia		Diphtheria	. 20
Scarlet fever		German measles	. 23
Smallpox		Influenza	
Whooping cough	. 64	Lethargic encephalitis	
VERMONT		Measles	
Chicken pox	. 9	Mumps	
Diphtheria	. 1	Pneumonia	
Measles		Poliomyclitis	
Mumps		Scarlet fever	
Scarlet fever		Smallpox	
Whooping cough	- 50	Tuberculosis	
Washington		Typhoid fever	
		Whooping cough	. 145
Cerebrospinal meningitis:		WYOMING	
Scattle		Chicken pox	
Spokane		Diphtheria.	
Tacoma		German measles	
Chicken pox		Meusles	
Diphtheria German measles		Munps	
Influenza.		Pneumonia	
Measles.		Scarlet fever	
Mumps	-	Whooping cough	
Reports for W	eek E	nded March 13, 1926	
DISTRICT OF COLUMBIA	Cases	NORTH DAKOTA	Cases
Chicken pox	22	Chicken pox	. 19
Diphtheria	14	Diphtheria	
Influenza		German measles	174
Lethargic encephalitis		Influenza	
Measles		Measles	
Pellagra		Mumps.	
Pneumonia		Pneumonia	. 39
Scarlet fever		Scarlot fever	. 124
Smallpox	1	Smallpox	. 447
Tuberculosis Typhoid fever	36	Whooping cough	. 17
A VINDIG ICYCL			
Whooping cough	22		

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Cere- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
January, 1926 Hawaii February, 1926	1	30	20		23		0	. 2	0	5
Michigan	10 3	381 341 10 63	28 183 16 974	0 1 14	7, 807 8, 578 88 1, 565	18	0 0 9 3	1, 503 813 470 160	32 0 34 94	20 17 5 29

Number of Cases of Certain Communicable Diseases Reported for the Month of January, 1926, by State Health Officers

State	Chick- en pox	Diph- theria	Men- sles	Mumps	Scar- let fever	Small- pox	Tuber- culosis	Ty- phoid fever	Whoop- ing cough
Alabama. Arizona Arkansas California Colorado Connecticut Delaware. District of Columbia Florida. Georgia.	415 52 77 1, 231 284 601 23 128 142 89	118 29 24 437 106 186 24 132 72 83	78 4 3 218 40 2,600 180 99 20	425 27 23 1, 023 32 58 3 107 134	98 04 31 729 143 338 34 114 42 59	157 1 13 442 1 0 0 0 322 74	167 55 23 684 159 151 34 81 37	50 5 19 50 8 12 1 32 49	113 28 32 351 214 332 5 34 20 55
Illinois Indiana Iowa Kansas Kentucky ²	1, 945 397 220 594	486 189 86 101	1,825 1,297 642 250	378 11 116 77	1,847 975 295 411	177 526 158 32	954 195 18 194	111 28 (¹) 11	739 309 86 322
Louisiana. Maine. Maryland Massachusetts. Michigan. Minnesota. Mississippi. Missouri. Montana. Mohruska 4	53 135 715 1,145 956 749 728 448 144	106 27 131 391 400 282 94 376 27	4 51 4,380 6,573 4,834 134 1,398 229 31	7 109 595 343 97 956 282 250	46 165 205 1, 289 1, 452 1, 434 65 1, 030 147	181 0 0 0 89 28 91 48 46	3 178 26 344 644 329 201 295 228 44	78 11 21 27 39 12 53 18 2	26 123 255 1, 683 1, 032 176 925 130 76
Nevada 5 New Hampshire 5									
New Jersey	1,749	441	5, 217		927	2	457	38	270
New York North Carolina North Dakota Ohio Oklahoma 6 Oregon Pennsylvania 4	2, 958 758 148 1, 492 168 137	1, 040 206 28 513 128 109	9, 335 383 60 11, 997 40 65	726 208 158 29 205	1,770 249 383 1,655 155 224	5 156 27 463 73 313	1,425 4 523 74 54	185 22 8 57 60 22	1,737 466 64 1,093 196 153
Rhode Island	54 38 97 253	69 136 33 70	2,214 1 20 838	12 9 260 42	52 46 442 151	0 52 35 49	38 162 3 167	2 50 4 26	67 341 15 80
Utah 4. Vermont Virginla Washington West Virginia Wisconsin Wisconsin Wyoming	234 847 483 175 1, 333 55	19 228 70 121 218 14	43 933 66 461 630 7	81 588 854 22	86 396 433 242 768 75	0 92 426 31 70 7	8 15 8 145 113 35 124 1	3 22 9 39 18 0	211 664 255 192 599 53

¹ Reports not required by law. ² Reports received weekly. ³ Pulmonary.

⁴ Report not received at time of going to press 5 Reports received annually. 6 Exclusive of Oklahoma City and Tulsa.

Case Rates per 1,000 Population (Annual Basis) for the Month of January, 1926

									1
State	Chick- en pox	Diph- theria	Mea- sles	Mumps	Scar- let fever	Small- pox	Tuhor rulosis	Ty- phoid fever	W hoop- ing cough
-									
Alabama	1.96	0.56	0.37	2.01	0.40	0.74	0.79	0. 24	0, 53
Arizona	1.45	0.81	0.11	. 75	1.70	. 03	1, [7]	. 14	.78
Arkansas	.48	. 15	. 02	.14	.20	. 08	. 14	. 12	, 20
California	3, 51	1, 25	. 62	2, 92	2.08	1.26	1. 05	. 14	1.00
Colorado	3.23	1. 21	, 46	. 36	1.63	.01	1.81	.00	2.44
Connecticut	4.54	1.41	19,64	.44	2, 55	.00	1, 14	. 09	2.51
Delaware District of Columbia	1.14	1.19	8.95	. 15	1.69	.00	1, 150	. 05	. 25
District of Columbia	2, 96	3.05	2, 29		2,64	.00	1, 87	. 02	.79
Florida	1.50	.76	.21	1.13	.44	3, 41	, 39	. 34	, 21
Georgia	.34	. 32	.65	. 51	.22	, 28	, 40	. 19	. 21
Idaho		. 54			1.47	.00		. 05	
Illinois		. 81	3.05	. 63	3.08	.30	1, 59	. 19	1. 23
Indiana	1.52	. 72	4.95	. 04	3.72	2.01	. 74	. 11	1.18
Iowa.		.40	2.99	. 54	1.38	.74	. 08	(1)	.40
Kansas	3.84	.65	1.62	. 50	2.66	. 21	1, 25	.07	2.08
Kansas Kentucky ²	0.01		1		-,,,,				
Louisiana	.33	.66	.02	. 04	.29	1, 13	81.11	.49	.16
Maine	2.02	.40	.76	1.63	2.47	.00	.39	.16	1.84
Maryland	5.42	.09	33, 21	4. 51	1.55	.00	2.61	. 16	1.93
Massachusetts	3. 23	1.10	18.52	.97	3.63	.00	1.81	.08	4.74
Afiabuses	2.65	1.11	13.41	. 27	4.03	.25	.91	iii	2.86
Michigan	2.00	1.28	.61	. 21	6.50	.13	.91	. 05	.80
Minnesota		.62	9.10	6, 29	.43	.60	1.54	.35	6.08
Mississippi	4.79			. 95		.16	.77	.06	.47
Missouri	1.52	1.27	.78		3.49				1.35
Montana	2.55	.48	. 55	4.43	2.60	.81	.78	. 04	1.33
Nebraska 4]]						~	
Nevada 6								~~~ ~***	
New Hampshire	l				:-:			~	
New Jersey	5.77	1.45	17, 21		3.00	.01	1, 51	. 13	.02
New Mexico 2					:-:			~~***	
New York	3.10	1.09	9.78	. 76	1.85	.01	1,49	. 19	1.82
North Carolina	3.19	. 87	1.61		1.05	.66	******	. 09	1.96
North Dakota	2.51	.48	1.02	3.53	6.50	.46	.07	. 14	1.09
Ohio.	2.73	. 94	21.99	. 29	3.03	.85	.96	. 10	2.00
Oklahoma s	. 87	. 66	. 21	.15	.80	.38	. 38	. 31	1.01
Oregon Pennsylvania 4	1.88	1.50	. 89	2.82	3.08	4,30	.74	. 30	2.10
Pennsylvania 4		1							
Rhode Island	98	1.26	40.37	, 22	. 95	.00	. 69	. 04	1.22
South Carolina	. 25	.89	. 01	.06	.30	.34	1.06	. 33	2. 23
South Dakota	1.70	. 58	. 35	4.56	7.75	. 61	.05	. 07	.26
Tennessee	1.22	. 34	4.04	. 20	. 73	. 24	18.	, 13	.39
Texas 2			l			1			
Utah 4									
Vermont	7.82	. 63	1.44	2, 71	2.87	.00	4.50	, 10	7.05
Virginia.	4.03	1.08	4.44		1.88	.44	3 .65)	. 10	3, 16
Washington	3.79	. 55	. 52	4.61	3.40	3.34	.89	.07	2.00
West Virginia	1. 27	. 88	3, 34		1.75	. 22	25	.28	1,39
Wisconsin	5.54	.91	2.62	3, 55	3. 19	.20	.52	.07	2, 49
Wyoming		.73	.36	1.14	3. 89	.36	.00	.00	2.75
	1	1		1	1				1

Reports not required by law.
Reports received weekly.
Pulmonary.

INFLUENZA AT SAULT STE. MARIE, MICH.

An epidemic of mild influenza was reported at Sault Ste. Marie, Mich., March 10, 1926.

TYPHUS FEVER AT EL PASO, TEX.

Under date of March 10, 1926, three cases of typhus fever with one death were reported at El Paso, Tex. All of the patients had visited Mexico. The health authorities are taking precautions to prevent the spread of the disease.

Report not received at time of going to press. Reports received annually. Exclusive of Oklahoma City and Tulsa.

PLAGUE-ERADICATIVE MEASURES IN THE UNITED STATES

The following items were taken from the reports of plague-cradicative measures from Los Angeles, Calif.:

Week ended Mar. 6, 1926:

Number of rats trapped	2, 364
Number of rats found to be plague infected	0
Number of squirrels examined	841
Number of squirrels found to be plague infected	0
Number of mice trapped	2, 588
Number of mice found to be plague infected	0
Date of discovery of last plague-infected rodent, Nov. 6, 1925.	
That are last house or any least 1000	

Date of last human case, Jan. 15, 1925.

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended March 6, 1926, 37 States reported 1,245 cases of diphtheria. For the week ended March 7, 1925, the same States reported 1,478 cases of this disease. Ninety-nine cities, situated in all parts of the country and having an aggregate population of more than 29,500,000, reported 704 cases of diphtheria for the week ended March 6, 1926. Last year for the corresponding week they reported 882 cases. The estimated expectancy for these cities was 978 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-four States reported 16,944 cases of measles for the week ended March 6, 1926, and 4,275 cases of this disease for the week ended March 7, 1925. Ninety-nine cities reported 10,294 cases of measles for the week this year, and 2,256 cases last year.

Poliomyclitis.—The health officers of 37 States reported 16 cases of poliomyclitis for the week ended March 6, 1926. The same States reported 17 cases for the week ended March 7, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-seven States—this year, 4,073 cases; last year, 4,478 cases; 99 cities—this year, 1,641 cases; last year, 2,019 cases; estimated expectancy, 1,200 cases.

Smallpox.—For the week ended March 6, 1926, 37 States reported 970 cases of smallpox. Last year for the corresponding week they reported 960 cases. Ninety-nine cities reported smallpox for the week as follows: 1926, 265 cases; 1925, 344 cases; estimated expectancy, 133 cases. Nine deaths from smallpox were reported by these cities for the week this year—8 at Los Angeles, Calif., and 1 at San Francisco, Calif.

Typhoid fever.—One hundred and eighty cases of typhoid fever were reported for the week ended March 6, 1926, by 36 States. For the corresponding week of 1925, the same States reported 215 cases of this disease. Ninety-nine cities reported 57 cases of typhoid

fever for the week this year and 57 cases for the corresponding week last year. The estimated expectancy for these cities was 43 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 92 cities, with a population of more than 28,800,000, as follows: 1926, 1,783 deaths; 1925, 1,220.

City reports for week ended March 6, 1926

The "estimated expectancy" given for diphtheria, poliomyclitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

			Diphi	heria	Influ	1011 Z 3			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									-
Maine: Portland New Hampshire:	75, 333	12	2	0	0	0	11	ŧ	:
Concord Manchester Vermont:	22, 546 83, 097	0	0 3	0	0	0	8 14	0 0	2 1
Barre Massachusetts:	10,008	0	1	0	0	0	0	0	0
Boston Fall River Springfield Worcester	779, 620 128, 993 142, 065 190, 757	54 4 12 2	61 .4 .4 .4	22 4 0 1	13 0 3 0	0 2 0	191 21 264 11	31 4 0 3	39 4 1 4
Rhode Island: Pawtucket Providence Connecticut:	69, 760 267, 918	2 0	11 11	2 5	0	0	125 288	0	3 7
Bridgeport Hartford New Haven	(1) 160, 197 178, 927	1 4 25	8 9 3	5 0 1	2 0 2	0 0 1	13 75 33	0 0 2	5 7
MIDDLE ATLANTIC									
New York: Buffalo New York Rochester Syracuse New Jersey:	538, 016 5, 873, 356 316, 786 182, 003	19 158 16 27	14 220 8 6	129 10 2	208 126 4	1 61 8 1	2, 349 30 63	1 32 1 46	11 361 26 5
Camden Newark Trenton Pennsylvania:	128, 642 452, 513 132, 020	9 49 2	17 4	5 10 1	3 36 44	4 0 5	42 572 4	0 7 1	22 23 13
Philadelphia Pittsburgh Reading	1, 979, 864 631, 563 112, 707	102 34 13	83 22 3	52 7 1	35 0	54 2 0	570 37 11	15 0 1	210 40 6
EAST NORTH CENTRAL									
Ohio: Cincinnati Cleveland Columbus Toledo Indiana:	409, 333 936, 485 279, 836 287, 380	11 37 19 51	10 29 4 6	4 27 1 4	1 2 0 0	5 0 3 3	6 798 400 85	6 1 3 0	9 36 7 5
Fort Wayne Indianapolis South Bend Terre Haute	97, 846 358, 819 80, 091 71, 071	10 33 5 5	8 1 1	2 4 1 0	0	0 0 0 1	1, 250 4 7	3 2 0 0	2 22 3 1
No estimate made.								•	

City reports for week ended March 6, 1926—Continued

			Dipht	heria	Influ	ienza			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
EAST NORTH CENTRAL— continued									
Illinois: Chicago Peoria Springfield	2, 995, 239 81, 564 63, 923	132 5 15	105 2 1	65 0 1	58 0 3	7 0 1	153 19 7	10 23 4	127 4 1
Michigan: Detroit Flint Grand Rapids Wisconsin	1, 245, 824 130, 316 153, 698	46 14 25	55 6 3	54 1 2	16 0 0	3 0 0	1, 119 7 23	12 1 0	NN
Madison Milwaukee Racine Superior	46, 385 509, 192 67, 707 39, 671	9 69 6 0	1 15 1 0	0 16 2 0	0 0 0	0 0 0	115 60 2 0	38 0 0	10000
WEST NORTH CENTRAL									
Minnesota: Duluth Minneapolis St. Paul Iowa:	110, 502 425, 435 246, 001	8 100 25	1 17 14	0 13 11	0	0 0 1	7 115 6	0 4 6	0 9 11
Davenport Sioux City Waterloo Missouri:	36, 771	3 3 4	1 2 0	2 0 0	0 0		0 1 30	0 0 0	
Kansas City St. Joseph St. Louis North Dakota:	367, 481 78, 342 821, 543	2 42	8 2 42	74	0 2	0	0 110	0 5	3
Fargo Grand Forks	26, 403 14, 811	200	0	0	0		0 3	18 0	
South Dakota: Aberdeen Sioux Falls	15, 036 30, 127	2	0	. 0	0		23 6	85 0	
Nebraska: Lincoln Omaha	60, 941 211, 768	8 18	1 5	0	0	1 0	0 14	1 1	1 10
Kansas: Topeka Wichita	55, 411 88, 307	8	1 3	1 0	0	0	11 63	1	0 6
SOUTH ATLANTIC	'								
Dolaware: Wilmington	122, 049	4	2	7	0	0	151	0	25
Maryland: Baltimore Cumberland	796, 296 33, 741	95 1	26 0	17	71 3	7 0	871 2	194	48
Frederick District of Columbia: Washington	12, 035 497, 906	31	13	19	8	1 2	10 148	0	39
Virginia: Lynchburg Norfolk	30, 395 (1)	21 20	1	1	0	0	1 <u>1</u>	2 4	4 7
Richmond Roanoke	186, 403 58, 208	Į į	2 2 1	1 1 2 2 2	0	0	73	1	10
West Virginia: Charleston Wheeling	49, 019 56, 208	3 2	1	0 2	6	0	16 28	0	0 5
North Carolina: Raleigh Wilmington Winston-Salem	30, 371 37, 061 69, 031	25 3	1 0 0	0 0 1	0 0	1 1 0	0 0 88	0 2 . 1	2 4
South Carolina: Charleston Columbia	73, 125 41, 225	0 3 0	0 1 1	0	40 0	4	4	0 1 4	3
Greenville Georgia: Atlanta Brunswick Savannah	(¹) 16,809	8 21 1	2001	1 0 1	148 1 20	4 0	12	0	9

¹ No estimate made.

City reports for week ended March 6, 1926-Continued

Division, State, and city Popular 1925, estimat	١,	Chick- en poy cases re- ported	Cases, esti- mated expect	Cases			Mea- sles,	Mumps	Pneu-
SOUTH ATLANTIC—con.			ancy	- portec	10-	re.	re-	enses re- ported	monia, deaths re- ported
			-		Ter 198 Place V .	-		models of sections by	1 / 45000
Florida: St. Petersburg 26, 8 Tampa 94, 7	347 743	ō	0 2			0 1		1	6
EAST SOUTH CENTRAL			-						
Kentucky: Covington	35	0	1 6	0 3	10		0 140	0 0	3 17
Memphis 174, 55 Nashville 136, 22	33 20	20 4	5 1	3 0	0		14 92	2	10 6
Birmingham 205, 67 Mobile 65, 93 Montgomery 46, 48	70 55 31	19 2 9	$\begin{array}{c} 2\\1\\0\end{array}$	1 1 1	341 5 5	30 4 0	9 0 0	1 0 13	21 3 0
WEST SOUTH CENTRAL									
Arkansas: Fort Smith 31,64 Little Rock 74,21 Louisiana:	.6	11 5	1 0	0	0 27		1 0	0 1	ī
New Orleans 414, 49 Shreveport 57, 85	3	6 5	11 1	10 0	24 11	14	1 0	0	19 0
Oklahoma City (1) Tulsa	8	1	2 1	0 1	46 0	1	0 2	1 0	7
Dallas 194, 45 Galveston 48, 37 Houston 164, 95	4	21 4 1	5 1 2 2	4 1 7	16 0 0	4 0	1 0	0	16
San Antonio 198, 06	9	ī	2	2	ĭ	6	0	0	3 27 16
Montana:							į		
Billings	1 3 7 8	18 0 0	0 1 0 0	0	0 0 0 70	0 1 0 2	4 1 0 0	7 23 0 0	0 2 1 0
Boise 23, 04	2	1	0	0	0	0	0	0	0
Denver 280, 91 Pueblo 43, 78	1 7	31 4	8 2	2 0		9	10	2 0	17
Arizona: 21,000	0	1	1	5	0	o	1	7	2 5
Phoenix 38, 660	9	2		0	0	0	0	a	1
Salt Lake City 130, 948 Nevada: Rono 12 809	-	17	2	6	0	0	0	28	4
PACIFIC 12, 608	5	0	0	0	0	0	0	2	0
Washington:		l				·		l	
Spokane (1) Tacoma 108, 897	2	48 8	6 3	12 8	0	~~~~~	33	89	*****
Portland see con	- 1	19	1 .	10		*******		********	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Camornia:	- 1	118	33	13 37	10 26	6	8	8	4
Los Angeles (1) Sacramento 72, 266 San Francisco 557, 536		3 57	24	12	0 3	0 3	11 0 55	11 0 17	26 2 5

No estimate made.

City reports for week ended March 6, 1926-Continued

	Scarlet	fever	1	Smallpo	x		Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Tuber- culosis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
NEW ENGLAND											
Maine: Portland New_Hampshire:	2	2	0	0	0	1	o	1	0	11	17
Concord Manchester Vermont:	1 2	0 6	0	0	0	0	0	0	0	0	11 12
Barre Massachusetts:	1	0	0	0	0	2	0	0	0	0	2
Boston Fall River Springfield Worcester	61 3 7 10	83 3 9 4	0 0 0	0 0 0	0 0	9 2 7 5	1 0 1	0 0 0	0 0 0	184 2 18 12	274 35 31 63
Rhode Island. Pawtucket Providence Connecticut:	1 8	1 5	0	0	0	2	0	0	0	6	31 63
Bridgeport Hartford New Haven	9 6 6	19 7 14	0 0 0	0 0	0 0	2 3 0	0 0	0 0 2	0 0 0	0 8 22	43 44 42
MIDDLE ATLANTIC											
New York: Buffalo New York Rochester Syracuse New Jersey:	. 18	18 173 8 3	0 0 0	0 0 0	0 0	14 1 101 2 2	1 7 1 0	1 2 2 2 0	0 4 0 0	29 82 15 60	143 1, 851 120 67
Newark Trenton	. 4	14 35 1	0 1 0	0 0	0	10 2	0 0	0 0 1	0 0 0	0 26 0	66 131 57
Pennsylvania: Philadelphia Pittsburgh Reading	74 26 2	65 47 8	0 0	0 0	0	49 9 3	3 0 0	2 1 0	0 1 0	49 36 5	870 217 45
EAST NORTH CENTRAL											
Ohio: Cincinnati Cleveland Columbus Toledo	34	35 100 16 13	2 1 1 3	2 0 7 0	0000	17 16 11 4	1 1 0 0	1 0 0 0	0 0	66 114 5 27	127 218 94 65
Indiana: Fort Wayne_ Indianapolis _ South Bend Terre Haute_ Illinois:	-1 4	8 14 2 2	1 6 1	0 22 2 0	000	0		0 0	0000	63	23 113 14 20
Chicago Peoria Springfield	- 4	129 6 5	3 1 1	1 0 0		0	0	3 0 1	000		803 32 21
Michigan: Detroit Flint Grand Rapids	93 7	117 25 24	3 1 1			0		0 0	0	22	20
Wisconsin: Madison Milwaukee Racine Superior	_ 3	18 5 3	1	0		10	0	0	0	56 34	116 13
WEST NORTH CENTRAL											
Minnesota: Duluth Minneapolis St. Paul	40 28	17 69 48	1117	. 1 0) 3	1 0	0) () [i 89

¹Pulmonary tuberculosis only.

City reports for week ended March 6, 1926-Continued

	Scarlet	t fever		Smallpo	x		Т	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Tuber- culosis, deaths re- ported	tuntari	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST NORTH CENTRAL—contd											
Iowa: Davenport Sioux City Waterloo Missouri:	2 2 2	2 0 1	2 1 1	0 2 1			1 0 0	0 0 0		4 1 1	
Kansas City St. Joseph St. Louis North Dakota:	11 3 32	3 185	2 0 5	0 10	0	0 14	0 0 1	0 0	0	0 10	34 237
Fargo	0	3 2	0	0	0	0	0	0	0	0	5
Aberdeen Sioux Falls Nebraska:	3	0	0	0	0	0	0	0	0	0	;
Lincoln Omaha Kansas:	3 5	5 10	0 6	0 13	0	0 3	0	0	0	3	19 52
Topeka Wichita	3	0 6	0 2	0	0	0 2	0	0	0	10	6 46
SOUTH ATLANTIC Delaware:											
Wilmington Maryland:	2	3	0	0	0	4	0	0	0	3	76
Baltimore	40 1 1	35 1 1	1 0 0	0	0 0 0	14 0 0	2 0 0	0 0 0	0 0 0	52 1 0	258 15 4
Washington Virginia	27	21	1	0	0	10	1	0	0	22	194
Lynchburg Norfolk Richmond Roanoke West Virginia:	1 1 3 1	0 9 6 0	0 0 0 1	0 0 0 8	0 0 0 0	0 1 2 0	0 0 0	1 0 0 0	0 0 0	6 4 0 3	11 60 15
Charleston Wheeling	0	0 5	0	1 0	0	2 2	0	0	0	14 0	20 21
North Carolina: Raleigh. Wilmington. Winston-Salem South Carolina:	0 0	0 0 1	0 0 3	2 0 1	0	1 0 1	0 0 0	0 0 0	0 0 0	0 3 5	16 21
Charleston Columbia Greenville Georgia:	0	0	0 1 1	0	0	2 0 0	1 0 0	0	0 0	0 0 2	33 8
Atlanta Brunswick Savannah Florida:	5 0 0	2 0 2	3 0 0	6 0 1	0	5 0 1	0 0 0	1 1 0	1 0 0	0 0 0	80 7 31
St. Petersburg_ Tampa	0	0 1	1 0	0 34	0	2 2	0 2	0	0	0	16 32
EAST SOUTH CENTRAL											
Kentucky: Covington Louisville Tennessee:	2 5	0 11	0	0	0	0 6	0	0	0	0	23 84
Memphis Nashville Alabama;	8 4	14 7	2 2	2 0	; 0 ; 0	4 0	1 1	0	0	1 3	79 63
Birmingham Mobile Montgomery	1 0	0 0	7 2 0	11 0 0	. 0	10 4 0	1 0 0	0	0	13 0 0	110 27 18

City repr ts for week ended March 6, 1926-Continued

	Scarle	t fever		Small	xoq			i	yphoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Case re- porte	re-		Tuber culosis deaths re- porter	Cases,		Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST SOUTH CENTRAL	:											
Arkansas: Fort Smith Little Rock	0	0	1 0	(3	- <u>ō</u> -	ō	- 8	0		3	
Louisiana: New Orleans Shreyeport Oklahoma:	5 1	13 1	3 2	18		0	20 1		8	0	2 9	168 24
Oklahoma City Tulsa Texas:	3 1	5 2	5 2	(0	1	0	1 0	0	0	24
Dallas Galveston Houston San Antonio	1 1 1 1	2 1 1 2	5 1 2 0	11 8 10	3	0000	7 1 4 7	0 0 0	0 0 0	0 0 0	16 0 0 0	60 18 69 64
MOUNTAIN Montana:												
Billings Great Falls Helena Missonla	1 2 0 1	2 2 1 1	1 2 0 0	0		0000	0 1 0 1	0	0 0 0 0	0 0 0	1 7 0 0	12 10 2 6
Idaho: BoiseColorado.	0	1	1	8	3	0	0	0	0	0	0	7
Pueblo	12 1	23 1	2 1	0		0	8 1	0	16 0	0	69 6	93 12
New Mexico: Albuquerque Arizona:	1	8	0	c)	0	4	0	0	0	2	18
Phoenix Utah		0	0	()	0	10	1	0	Q	0	24
Salt Lake City Nevada: Reno	4 0	6 0	0	1	j	0	0	1	0	0	44	33
PACIFIC												
Washington: Seattle Spokane Tacoma	10 4 2	37 29	3 7 3	10					4 0		2 3	********
Oregon: Portland	6	13	12	18		0	5	1	0	0	2	63
California: Los Angeles	21	37	4	72	1	8	24	1	1	0	5	264
Sacramento San Francisco.	1 15	3 10	7	1	2 1	Ö 1	3 9	0	0 1	Ö	0 5	30 139
Millionistance communities that are provided in the communities of the		Ce	rebroopi eningiti	nal is	Leth encep	arg hal	rie i ti s	Pelle	ngra	Poliom p	yelitis (i: aralysis)	nfantile
Division, State, a	ind eity	Cas	ses De	aths	Cases	De	eaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
MIDDLE ATLA	NTIC					Γ						
New York: New York Rochester Pennsylvania:			5 0	0	7 1		3 0	0	0	1 0	3 0	20
Philadelphia Pittsburgh			1	0	0		1 0	0	0	0	. 0	. 0

City reports for week ended March 6, 1926-Continued

	Cerebr		Leth	argic halitıs	Pell	ngra	Poliom	yelitis (i aralysis)	nfantile
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
EAST NORTH CENTRAL									
Illinois: Chicago Michigan: Detroit	1 0	1 0	0	0	0	0	0 1	0	0
WEST NORTH CENTRAL									
Minnesota: Minneapolis	0	0	1	0	0	0	0	0	0
Missouri: St. Louis	1	0	0	0	0	0	0	0	0
Nebraska: Lincoln	2	1	0	0	0	0	0	0	0
SOUTH ATLANTIC									
Maryland: Baltimore District of Columbia:	1	1	2	0	0	0	0	0	0
Washington	0	0	2	1	0	0	0	1	0
Charleston	l	0	0	0	0	2	0	0	1
Atlanta Brunswick Savannah	0	0 0	0 0	0	0 1 1	0 0	0	0 0 0	0 0 0
WEST SOUTH CENTRAL									
Arkansas; Little Rock Louisìana:	1	1	0	0	a	1	0	o	0
New Orleans 1 Shreveport	0	0	0	0	0	1 2	0	0	0
Texas: Houston	. 0	0	u	0	0	1	0	0	0
MOUNTAIN									
Colorado: Denver	. 0	0	a	1	0	. 0	0	. 0	0
PACIFIC	İ								
Washington: ScattleSpokaneOregon:	12 9	0	0	0	0	0	0	0	0
Portland	1	0	0	U	0	0	0	0	0
Los Angeles Sacramento San Francisco	. 1	0 2 0	2 1 0	1 0 0	. 0	000	0 0	0 0	0 0

Dengue, 1 case at New Orleans, La.

The following table gives the rates per 100,000 population for 103 cities for the five-week period ended March 6, 1926, compared with those for a like period ended March 7, 1925. The population figures used in computing the rates are approximate estimates as of July 1, 1925 and 1926, respectively, authoritative figures for many of the cities not being available. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in

1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and more than 29,750,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, January 31 to March 6, 1926-Annual rates per 100,000 population-Compared with rates for the corresponding period of 1925 1 DIPHTHERIA CASE RATES

					Week	nded-				
	Feb. 7, 1925	Feb. 6, 1926	Feb. 14, 1925	Feb. 13, 1926	Feb. 21, 1925	Feb. 20, 1926	Feb. 28, 1925	Feb. 27, 1926	Mar. 7, 1925	Mar. 6, 1926
103 cities	2 169	134	2 163	⁸ 136	153	137	4 163	⁵ 134	156	6 124
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Most South Central Most South Central Pacific	170 136 247 2 145 58	97 129 119 220 133 42 138 127 189	237 164 124 251 2173 63 154 92 171	123 140 132 168 135 47 116 173 140	232 162 116 203 148 74 119 157	116 132 134 202 105 57 90 218 205	4 184 177 111 289 108 47 154 148 246	102 118 3 140 9 263 10 73 11 55 116 12 163 216	225 166 107 273 98 58 137 83 224	7 95 8 111 123 9 235 109 47 103 73
		MEA	SLES	CASE 1	RATES					
103 cities	2 242	1, 481	2 285	3 1, 717	367	1,994	4 342	5 2, 024	403	6 1,818
New England Middle Atlantic. East North Central. West North Central South Atlantic East South Central West South Central. Mountain Pacific	204 415 16 2 46 47	2, 408 1, 347 2, 152 408 2, 579 711 34 91 105	637 286 470 28 2 92 68 48 148 28	2, 347 1, 511 3 2, 633 542 3, 112 732 13 109 167	695 371 637 26 104 47 13 601 61	2, 709 1, 913 2, 929 677 3, 276 960 9 137 202	4 569 341 589 70 77 42 48 888 58	2,188 2,040 33,031 9642 102,856 111,311 912 0 162	633 426 738 66 94 79 22 28 102	7 2, 457 8 1, 627 2, 691 6 845 2, 697 1, 323 17 209 13 282
	SC	ARLE'	r fev	ER CA	SE RA	TES				
103 citles	2 397	298	2 385	² 298	376	309	4 390	5 287	381	6 290
New England Middle Atlantic. East North Central West North Central South Atlantic. East South Central West South Central Mountain Pacific	372 398 844 2 241	402 209 338 746 163 119 138 155 326	544 406 371 695 261 194 114 370 168	362 197 3 358 770 171 114 108 218 310	585 374 403 719 157 205 119 240 177	362 208 372 772 150 244 108 237 332	4 543 411 402 711 192 168 137 305 213	354 187 334 9764 10 203 11 182 112 12 109 313	563 870 403 752 161 179 176 277 207	7 349 8 175 345 9815 163 187 90 337

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1925, and 1926, respectively.

² Wilminston, Del., not included.

³ Madison, Wis., not included.

⁴ Hartford, Conn., not included.

⁵ Madison, Wis., Kansas City, Mo., Winston-Salem, N. C., Covington, Ky., and Denver, Colo., not included.

ncluded.

6 Barre, Vt., Newark, N. J., Kansas City, Mo., and Tacoma, Wash., not included.

7 Barre, Vt., not included.

8 Newark, N. J., not included.

9 Kansas City, Mo., not included.

10 Winston-Salem, N. C., not included.

11 Carriers Vt., not included.

¹¹ Govington, Ky., not included.
12 Denver, Colo., not included.
13 Tacoma, Wash., not included.

Summary of weekly reports from cities, January 31 to March 6, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1935—Continued

SMALLPOX CASE RATES

					Week e	ended				
	Feb.	Feb. 6, 1926	Feb. 14, 1925	Feb. 13, 1926	Feb. 21, 1925	Feb. 20, 1926	Feb. 28, 1925	Feb. 27, 1926	Mar. 7, 1925	Mar. 6, 1926
103 cities	2 73	47	3 76	3 53	64	41	1 64	841	60	64
lew England	0	0	0	0	0	0	10	0	0	7
fiddle Atlantic	2	ő	4	i	2	ŏ	3	0	ĭ	8
fiddle Atlantic ast North Central	36	16	33	3 23	52	33	26	3 19	40	1
Vest North Central	141	53	187	32	123	63	117	0 90	111	9.5
outh Atlantic	2 58	101	2 92	81	63	51	40	10 60	48	10
ast South Central	756	42	620	52	488	104	536	11 55	599 70	15
Vest South Central	119	155	132	112	79	142 36	110	133	46	1 ':
Jountain	28 254	73 324	157 210	73 461	83 204	194	55 298	245	196	13 2
WCING	204	024	210	401	202	104	250	210	130	
	T	грног	D FEV	ER CA	SE RA	TES				
103 cities	* 13	7	112	3 6	10	7	13	8.5	10	
New England	<u> </u>	14	19	5	0	7	4 13	5	7	7 1
Middle Atlantic	13	3	6	6	10	4	8	2	10	
Middle Atlantic East North Central	8	3	6	3 4	6	5	6	31	8	l
Vest North Central	1 0	6	10	4	4	6	16	92	15	
South Atlantic	2 16	13	2 20	15	8	4	19	10 12	8	1
East South Central	11	21	37	10	32	5	32	11 11	32	1
West South Central	22	4	44	0	40	22	40	30	26	1 3
Iountain	28	36	18	0	37	18	74 8	12 18	9	14
Pacific	17	16	11	13	22	16	8	8	14	5 à 1
]	INFLU	ENZA	DEAT:	H RAT	ES				-
96 cities	2 29	35	2 27	3 34	29	50	4 34	³ 46	30	0.5
New England	. 46	12	26	19	17	2	4 39	19	17	71
Middle Atlantic	. 24	20	22	15	1 21	27	20	39	15	
Middle Atlantic East North Central West North Central	. 12	12	16	3 11	17	11	23	114	25	! !
West North Central	. 19	19	11	4	21	19	36	10 03	34	u
South Atlantic East South Central	2 44	68	2 52	64	52 68	137 161	46	11 143	50 95	28
West South Central	63 92		58 116	62 302	145	298	116 140	227	135	i:
Mountain.	55		55	127	55	109	18	100	18	li
Pacific	36		4	35	ii		25	35	25	113
	']	PNEUN	IONIA	DEAT	H RA	res	11	Manghamatan ga	-	•,
96 cities	2 214	206	2 212	1 213	207	259	4 190	8 200	100	6 27
				ļ		-		m management of		1 0 4 34 1
Norm Washingd	204 252	201	230	156	232	175	4 235	165	218	1 11
New England		213	230 158	212 161	215 173	289 180	184 160	316 3 180	209 182	9 ;3
New England Middle Atlantic East North Control	150			1 . 107	127	125	150	181	136	20
Middle Atlantic East North Central	. 152		132	1 77						. "
Middle Atlantic East North Central West North Central	152	127	133	406	230	488		10 AFA		(2
Middle Atlantic East North Central West North Central	152	127 344	133	406 223	232 204	486	275 268	10 456	251	3
Middle Atlantic	152 106 2295 299 334	127 344 249 387	133	406 223 553	232 204 387	486	275 268	10 456 11 309	251 247	3
Middle Atlantic East North Central West North Central South Atlantic East South Central	152 106 2295 299	127 344 249 387	133 2247 289	406	232 204 387 203	486	275	10 456	251	3 3 2 13 1

1350

Madison, Wis., not included.
 Hartford, Conn., not included.
 Madison, Wis., Kansas City, Mo., Winston-Salem, N. C., Covington, Ky., and Denver, Colo., not 6 Madison, Wis., Kansas City, Mo., Winston-Baiem, M. C., Collago, included.

8 Barre, Vt., Newark, N. J., Kansas City, Mo., and Tacoma, Wash., not included.

8 Newark, N. J., not included.

8 Kansas City, Mo., not included.

10 Winston-Salem, N. C., not included.

11 Covington, Ky., not included.

12 Denver, Colo., not included.

13 Tacoma, Wash., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively

Group of cities	Number of cities reporting	Number of cities reporting	of cities cases	population reporting	Aggregate population of cities reporting deaths		
	eases	deaths	1925	1926	1925	1926	
Total	103	96	29, 944, 996	30, 473, 129	29, 251, 658	29, 764, 201	
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mest South Central Mountain Pacific	12 10 16 14 21 7 8 9	12 10 16 11 21 7 6 9	2, 176, 124 10, 346, 970 7, 481, 656 2, 594, 962 2, 716, 070 993, 103 1, 184, 057 563, 912 1, 888, 142	2, 206, 124 10, 476, 970 7, 655, 436 2, 634, 607 1, 004, 953 1, 212, 057 572, 773 1, 934, 084	2, 176, 124 10, 346, 970 7, 481, 656 2, 461, 380 2, 716, 070 993, 103 1, 078, 198 563, 912 1, 434, 245	2, 206, 124 10, 476, 970 7, 655, 436 2, 499, 036 2, 776, 070 1, 004, 953 1, 103, 695 572, 773 1, 469, 144	

FOREIGN AND INSULAR

THE FAR EAST

Report for week ended February 20, 1926.—The following report for the week ended February 20, 1926, was transmitted by the far eastern bureau of the health section of the League of Nations' secretariat, located at Singapore, to the headquarters at Geneva.

No other on the who improves posterior and the Arthresis of the Control of the Co	Plague Choler		lera	Small- pox			Plague		Cholera		Small- por		
Port	Port Cases Deaths Deaths Deaths	Port	, Cases	Deaths	Cases	Deaths	Cases	Deaths					
Calcutta Bombay Vadras Rangoon Karachi Negapatam Colombo Basra Singapore Port Swettenham Penang Batavia Sarabaya Samarang Belawan Deli Makassar Pontianak (Borneo) Sundakan (North Borneo) Kuching (Sarawak) Timor Dilly Manila Zamboanga Bangkok Saigon and Cholon Haiphong Tourane Hongkong Shanghai Amoy Nagasaki Yokohama Simonoseki Moli Kobe Osaka Nilgata	000000000000000000000000000000000000000	060000000000000000000000000000000000000	000000000000000000000000000000000000000	37 07 00 11 00 00 00 00 00 00 00 00 00 00 00	63 12 8 13 21 25 0 6 3 3 0 0 0 0 0 0 0 0 0 0 13 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	36 5 3 1 3 5 1 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Tsuruga. Hakodate Keelung. Fusan Dairen Adelaide Brisbane. Fremantle. Melbourne Sydney. Rockhampton Townsville Port Darwin Broome Port Moreshy Auckland. Wellington Christehurch Invercargill Honolulu Sucz. Tor Quarantine Station. Alexandria. Port-Said Mombasa (Kenya) Zanzibar Massowah. Djihuti. Berbera. Mozambique. Loureneo Marques. Durban East London Port Elizabeth Cape Town Port-Louis (Mauritius). Seycholles	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000

BRAZIL

Plague— Malaria—Typhoid fever -Bahia. During the period from January 17 to February 13, 1926, 43 deaths from malaria, 3 cases of plague with 1 death, and 29 cases of typhoid fever with 7 deaths were reported at Bahia, Brazil.

CANADA

Communicable diseases—February 27-March 6, 1926.—The following table shows the number of cases of certain communicable diseases in seven Provinces of Canada during the week ended March 6, 1926. The information was supplied by the Canadian Ministry of Health.

Disease	Nova Scotia	New Bruns- wick	Que- bec	On- tario	Mani- toba	Sas- katch- ewan	Al- berta	Total
Cerebrospinal fever Influenza Poliomyelitis Smallpox Typhoid fever	31	1	1 1 6	1 4 7		5	3 2	2 31 1 12 17

Communicable diseases—Ontario—February, 1926 (comparative).—During the month of February, 1926, communicable diseases were reported in the Province of Ontario as follows:

	February, 1926		Febr	uary,)25		Febr	uary, 26	February, 1925	
Disease	Cases	Deaths	Cases	Deaths	. Disease	Cases	Deaths	Cases	Deaths
Cerebrospinal mennigitis. Chancroid. Chicken pox. Diphtheria. German meusles. Genorrhea. Influenza. Lethargic encephalitis. Measles.	785 201 511 190 	18 31 1 2	8 15 539 285 13 216	4 	Mumps	588 820 2 86 162 163 26 420	227 4 	1, 112 4 621 3 13 163 158 40 427	241 3 10 1 1 1 1 58 3 8

Smallpox distribution.—The occurrence of smallpox was distributed in 24 localities with the greatest number of cases reported at Kitchener, viz, 26. At Toronto 4 cases were reported; at Trenton, 8; North Bay, 3; Ottawa, 1 case. For further statement of occurrence according to locality see page 595.

Epidemic measles in border cities.—Press notice received under date of March 4, 1926, from Windsor, Ontario, Canada, shows spread of epidemic measles in cities on the Canadian border and urges cooperation of citizens with the health authorities in checking spread of infection by reporting suspect or actual cases of the disease. On March 3, 23 new cases of measles were reported at Windsor. During the month of January, 1926, 164 cases, and in February, 292 cases of measles, were reported in Windsor and the border cities of Walkerville, Ford, Sandwich, and Ojibway (total population, 88,000).

CHILE

Typhoid fever—Typhus fever—December 15-31, 1925. During the period December 15 to 31, 1925, 13 cases of typhoid fever and 46 cases of typhus fever were reported in the Republic of Chile, occurring in 13 localities. The distribution of the occurrence was as follows:

Locality	Ty- phoid fever	Ty- phus lever	Popu- lation	Locality	Ty- phoid fever	Ty- phus fever	Popu- lation
Achao. Bulnes Chillan Concepcion Constitucion Curico Linares.	4	1 1 24 6	1, 657 3, 987 30, 881 64, 074 7, 827 15, 879 12, 051	Los Angeles Penco. San Carlos. San Javier de Loncom. Tolco. Valparaiso.	<u>-</u>	5 2 1 4	13, 274 4, 408 7, 510 4, 808 36, 079 182, 422

JAMAICA

Communicable diseases—January 24—February 27, 1926. —A supplementary report for the week ended January 30, 1926, shows the occurrence of 1 case of chicken pox, 1 case of smallpox (reported as alastrim), 2 cases of pulmonary tuberculosis, and 4 cases of typhoid fever in Jamaica.

During the four weeks ended February 27, 1926, communicable diseases were reported in Jamaica as follows: Chicken pox, 23 cases; diphtheria, 2; leprosy, 1; smallpox (reported as alastrim), 121; pulmonary tuberculosis, 40; typhoid fever, 43 cases.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

Reports Received During Week Ended March 26, 1926 1

CHOLERA

Place	Dute	Cases	Deaths	Remarks	
Survey garysthological per excellence in completions of the desired in the common	٠	3 -8186	-	41 41 4 1	
India				Jan. 3-16, 1026; C	ases, 4,680;
Calcutta	Jan. 24-30	34	29	deaths, 2,625,	
Madras	Feb. 7-13	5	3	are are y any comme	
Rangoon	Jan. 24-30	1	Ĭ		
Philippine Islands:			1		
Manila	Jan. 31-Feb. 6		2		
Province—		1			
Bataan	Jan. 2-16	1	1		
Bulacan	do	5	5		
Pampanga	Jan. 2-23	27	24		
Rizal	Dec. 20-31	14	11		
Siam:	_	ł	}		
Bangkok	Jan. 24-30	31	19		

From medical officers of the Public Health Service, American consuls, and other sources.

Reports Received During Week Ended March 26, 1926—Continued PLAGUE

Place	Date	Cases	Deaths	Remarks
Brazil: Bahia Celobes: Makassar India Madras Presidency Rangoon Iraq: Bagdad Java: Batavia Cherbon Surabaya Siam: Bangkok Straits Settlements: Singapore	Jan. 17-30	3 3 113 3 1 61 1 6	1 3 73 2 1 57 1 6	Netherlands Indies. Jan. 3-16, 1926: Cases, 4,867; deaths, 3,938. Province. East Java and Madoera.

SMALLPOX

Do		1 7			
Ontario	Canada:		l		
Do					Feb. 1-28, 1926; Cases, 86, Cor-
Do					responding period, year 1925-
Admaston Alice and Fraser do 6 Belleville do 7 Belleville do 7 Belleville do 7 Belleville do 7 Belleville do 7 Belleville do 7 Belleville do 7 Belleville do 7 Belleville do 7 Belleville do 7 Belleville do 7 Belleville do 7 Belleville do 7 Belleville do 7 Belleville do 7 Belleville do 7 Belleville do 7 Belleville do 8 Belleville do 8 Belleville do 8 Belleville do 9				1	cases, 13; deaths, 1.
Alice and Fraser	Do	Feb. 21-27			Later report.
Releville					
King	Alice and Fraser	do			Do,
Kitchener	Belleville	do			70-
North Bay	Kitchovay	do			Д0,
Toronto	North Roy	30			
Trenton	Toronto	do	1 4		
Wilmot	Trenton	do	Ř		
Ceylon: Colombo Jan. 31-Feb. 6 3 Port cases, 2 Town case in fected from India. China: Changking Hongkong Nanking South Manchuria Railway line Jan. 24-Feb. 6 Present. An-shan Changchun Mukden Feb. 7-13 3 Prevalent. Chosen: Seishin Jan. 31-Feb. 13 Prevalent. Seishin Jan. 1-31 5 2 Egypt: Alexandria Hull Newcastle-on-Tyne Jan. 30-Feb. 20 885 Prevalent. Feb. 5-11 2 Jan. 1-31 5 2 India Bombay Calcutta Karachi Branch Alexandria Hull Jan. 17-30 26 15 Karachi Calcutta Branchi Do Jan. 31-Feb. 6 Jan. 24-30 Jan. 24-30 Do Jan. 31-Feb. 6 Jan. 31-Feb. 6 Jan. 31-Feb. 27 Jan. 31-Feb. 27 8 3 Italy: Octania Surabaya Amexico: Armasacilientes Feb. 15-21 Jan. 10-16 Amasacilientes 1 Reported as alastrim. Do Armasacilientes Feb. 28-Mar. 6 3 A	Wilmot	do			Do.
China: Chungking	Ceylon:	1	1		
China: Jan. 24-Feb. 6 Present. Hongkong Jan. 24-Feb. 13 Prevalent. South Manchuria Railway Jan. 24-Feb. 13 Prevalent. Jan. An-shan Feb. 7-13 3 Changchun do 1 Mukden Jan. 31-Feb. 13 Prevalent. Swatow Jan. 31-Feb. 13 Prevalent. Chosen: Jan. 1-31 5 2 Egypt: Alexandria Feb. 5-11 2 Great B itain: Feb. 5-11 2 Prevalent. India Feb. 14-20 3 Jan. 30-Feb. 20 885 Hull Feb. 12-27 1 Jan. 24-30 47 40 Karachi Jan. 24-30 47 40 40 Arts. 2,241 Jan. 24-30 47 40 Karachi Jan. 24-30 6 1 Arts. 24-30 1 Arts. 24-30 1 Arts. 24-30 1 Arts. 24-30 1 Arts. 24-30 1 Arts. 24-30 1 Arts. 24-30 1 A	Colombo	Jan. 31-Feb. 6	3		Port cases, 2. Town case in-
Chungking			1		fected from India.
Hongkong		1	l	1	
Nanking		Jan. 24-Feb. 6			Present.
South Manchuria Railway Inc. An-shan Feb. 7-13 3 Ghangchun Mukden Jan. 31-Feb. 13	Hongkong.	Jan. 24-30	1		The same beauti
Reported as alastrim. Feb. 7-13. 10 10 10 10 10 10 10 1	Nanking	Jan. 24-Feb. 13			Frevaient.
An-shan			l		Tob 7 12 1000; Caron E
Changchun	Anchon	Fab 7-12			1 Ed. 1-13, 1920. Cases, 5.
Mukden	Changehun	40			
Doc Dam Doc Dam Doc Dam Doc Dam Doc Dam Doc Dam Doc Dam Dam Doc Dam Dam Doc Dam Dam Doc Dam	Mukden	do	î		
Doc Dam Doc Dam Doc Dam Doc Dam Doc Dam Doc Dam Doc Dam Dam Doc Dam Dam Doc Dam Dam Doc Dam		Jan. 31-Feb. 13			Prevalent.
Egypt: Alexandria.	Chosen:	Į.	1		
Table Tabl		Jan. 1-31	5	2	
Great B, Italn: England and Wales Jan. 30-Feb. 20 885 Hull Feb. 21-27 1 Newcastle-on-Tyne Feb. 14-20 3 India Jan. 17-30 26 15 Calcutta Jan. 17-30 26 15 Karachi Jan. 24-30 47 40 Madras Feb. 7-13 10 Rangoon Jan. 24-30 6 Italy: Catania Feb. 15-21 1 Teb. 12-21 1 Jamaica Jan. 24-30 1 Do. Jan. 31-Feb. 27 121 Japan: Nagasaki Feb. 15-21 1 Do. Do. Java:: Surabaya Jan. 10-16 24 6 Mexico: Avusscalientes Feb. 28-Mar. 6 3	Egypt:			1	
England and Wales	Alexandria	Feb. 5-11	2		1
Hull	Great Bitain:	Y 00 71-1 00		Į	1
Newcastle-on-Tyne		Jun. 30-Feb. 20			1
India					}
Bombay. Jan. 17-30 26 15 Calcutta. Jan. 24-30 47 40 Karachi Ban. 24-30 10 8 3 Madras 10 Jan. 24-30 6		Feb. 14-20	3		Tan 2-16 1096 Cases 0.218
Calcutta	Romboy	Jan 17-30	26	15	
Karachi	Calcutta	Jan 24-30	47		2,2,1
Madras Feb. 7-13 10 Rangoon Jan. 24-30 6 Italy: Feb. 15-21 1 Jamaica Jan. 24-30 1 Reported as alastrim. Do Jan. 31-Feb. 27 121 Do. Japan: Feb. 15-21 1 Do. Java: Surabaya Jan. 10-16 24 6 Mexico: Ayuascalientes Feb. 28-Mar. 6 3	Karachi	Jan. 31-Feb. 6	8		
Italy: Gatania Feb. 15-21 1 Jamaica Jan. 24-30 1 Reported as alastrim. Do Jan. 31-Feb. 27 121 Do. Javan: Feb. 15-21 1 Do. Surabaya Jan. 10-16 24 6 Mexico: A yuascalientes Feb. 28-Mar. 6 3		Feb. 7-13	10		
Catania	Rangoon	Jan. 24-30	6		
Jamaica Jan. 24-30 1 Reported as alastrim. Japan: Jan. 31-Feb. 27 121 Do. Japan: Feb. 15-21 1 Do. Java: Surabaya Jan. 10-16 24 6 Mexico: A grascalientes Feb. 28-Mar. 6 3	Italy:		1	1	
Do. Jan. 31-Feb. 27. 121 Do. Japan: Negasaki Feb. 15-21. 1 Java: Surabaya. Jan. 10-16. 24 6 Mexico: A yuascalientes Feb. 28-Mar. 6. 3	Catania	Feb. 15-21	1		
Japan: Nagasaki 1 Java: Surabaya Jan. 10-16 24 6 Mexico: A guascalientes Feb. 28-Mar. 6 3					
Nagasaki Feb. 15-21 1 1		Jan. 31-Feb. 27	121	[. Do.
Java: Surabaya	Japan:	77-7- 17-01	١.	1	1
Surabaya		Feb. 15-21	·\		1
Mexico: Aguascalientes Feb. 28-Mar. 6	Javu;	Ton 10.18	04		1
Aguascalientes Feb. 28-Mar. 6	Movion	Jan. 10-10	24	1 6	
Grandel laws		Feb. 28-Mar. 6		3	1
Criminal Burner and Criminal Commence of the C	Guadalalara	Mar. 2-8		l ĭ	1
Guadalajara Mar. 2-8 1 Tampico Feb. 22-28 1		Feb. 22-28	i		

Reports Received During Week Ended March 26, 1926-Continued

SMALLPOX-Continued

Place	Date	Cases	Deaths	Romarks
Palestine:	Feb. 9-15			
Siam:	Feb. 9-19	1		
Bangkok	Jan 24-30	19	9	
Spain: Valencia Straits Settlements:	Feb. 14-27	5		
Singapore	Jan. 10-16	2	1	
Tunis: Tunis	Feb. 11-20	L		
What the bridge the the second section and the second section and the second section s	турния	S FEVE	R	grand in the the contract with the contract cont
Algeria:	Feb. 1-10	8		
Chile		l		Dec. 15-31, 1925, Cases, 46.
Achao Bulnes		1		
Chillan	do		1	
Concepcion.	do	6		
Linares	do	1		
Los Angeles Penco		3 2		
San Carlos	do	î		
Talca	do	î		
Valparaiso	do	4		
Mexico: Mexico City	Fob 91.07	8		I medicado a se aconstituen 1747a y far 25 a 3
•	rain 21-21	°		Including municipalities in Federal District.
Poland	*********			Nov. 29-Dec. 19, 1925; Cases
Union of South Africa: Cape Province—				144; denths, 12.
Grahamstown	Jan. 24-30	2		Outbreaks reported in districts of

Reports Received from December 26, 1925, to March 19, 1926 1

Outbreaks reported in districts of Harris mith, Libode, and Um-

tata.

CHOLERA

Billingstage secretary weeks as a series of a second of strength				and the second of the second o
Place	Date	Cases	Deaths	Remarks
				A mercural property
Chosen	October, 1925	6		
('alcutta	757777777777777777777777777777777777777			Oct. 18-Dec. 19, 1925; Cases,
	Nov. 1-28		89	18,697; deathr, 10,018. Dec. 27,
Da	Dec. 6-26		54	1925 Jan. 2, 1926; Cases, 2,619,
Do Madras	Dec. 27-Jan. 16	:	41.	deaths, 1,483,
Do	Nov. 15-Jan. 2	174	70	
Rangoon	Jan. 3-Feb. 6	70	43	
Indo-China	Nov. 8-Dec. 5	•	4	
andi- Chillian				September, 1925; Cases, 9; dentlis,
Province-		,		5. September, 1924; Cases, 7;
Annam	Sept. 1-30	2		deaths, 4. (European cases, 2.)
Cochin China	do	5		September, 1924: None.
Saigon	Jan. 4-17	2	3	September, 1924: 1 case; 1 death.
	Jan. 4-11	25	2	Including 100 square kilometers
Tonkin	September, 1925	. 2		of surrounding country.
Japan.	Aug. 30-Oct. 17	409		September, 1924: None.
Do	Oct. 25-Nov. 28	82		'
Philippine Islands:	10 140V. 20	, 04		
Manila	Nov. 9-Jan 3	15	10	
Do	Jan. 4-31	ii	21	
177		**		•

¹ From medical officers of the Public Health Service, American consult; and other sources.

Reports Received from December 26, 1925, to March 19, 1926—Continued CHOLERA—Continued

Place	Date	Cases	Deaths	Remarks
Philippine Islands—Contd.	andrew drawing the company throughout the server of			The same of the sa
Province—	NT 00 This 00	90	or	
Bataan Bulacan	Nov. 30-Dec. 26 Oct. 18-Nov. 7	29 92	25 64	
Do	Nov. 23-Dec. 31 Nov. 23-Dec. 26	200	88	
Laguna Nueva Ecija	Nov. 23-Dec. 26	18 6	14 2	
Pampanga	Nov. 1-7 Nov. 23-Dec. 31 Sept. 27-Nov. 21 Dec. 7-13	1	1	
Ďo	Nov. 23-Dec. 31	113	85 21	
RizalRomblon	Dec. 7-13	75 23	12	
Russia	May-June July-August	7		
Do Siam:	July-August	4		
Bangkok Do Do	Oct. 4-Nov 14	108	68	
Do	Nov. 22-Dec. 26 Dec. 27-Jan. 23	270 115	149 83	
On vessel:	1700. 21-3811. 20	110	00	
Steamship	Oct. 3	9		Arrived at Bangkok, Siam:, Cases in coolio passengers.
	!	CITE	<u> </u>	
• • • • • • • • • • • • • • • • • • •	PLA	GUE		
Argentina				Jan. 24-30, 1926: 6 cases, occur- ring in interior provinces of Salta and Santa Fo.
Buenos Aires	Jan. 24-30	1		ling in interior provinces of Salta and Santa Fa.
Brazil:				Marco Hill Fallett 1 C.
Bahia Do	Nov. 8-Dec. 27 Dec. 27-Jan. 2	3	1 1	
Santos British East Africa:	Dec. 8-21		2	
British East Africa:				
Kenya- Kisumu	Nov. 22-Dec. 5	1	2	
Uganda Protectorate	Nov. 22-Dec. 5 September-No-	338	308	
Canary Islands	vember.			
Canary Islands: La Laguna Las Palmas	Dec. 24	3	2	
Las Palmas	do	1	i	
Do Santa Cruz de Tenerifie	Jan. 7. Dec. 18-27.	3		
Do	Dec. 28-Feb. 1	3		
Celebes: Makassar	Dec. 29-Jan. 4	4	4	Netherlands East Indies.
Ceylon:				
Colombo	Nov. 15-Dec. 5 Dec. 27-Jan. 16 Jan. 24-30	3	3 2	1 plague rodent.
Do	Jan. 24-30			Do.
China: Nanking	Nov. 15-Jan. 23	l		Prevalent.
Ecuador:	1404, 10-3811, 20			Fierment.
Elov Alfaro	Jan. 1-15	1 .1	:::-	
Gunyaquil Do.	Nov. 1-Dec. 31 Jan. 1-31	31 34	12	Rate taken Nov. 1-Doe 21, 1925.
***************************************	1	"		Rats taken, Nov. 1-Dec. 31, 1925, 49,370; rats found infected, 281.
Recreo (country estate)	do	1		Hats taken, Jan. 1-31, 1926, 24.672; rats found infected, 234.
Egynt				Jan. 1-Dec. 9, 1925: Cases, 138.
Beni Suef	Nov. 18 Dec. 3-9	1	1	Jnn. 1-Dec. 9, 1925: Cases, 138. Corresponding period, 1924: Cases, 365.
Greece:	Dec. 3-9	. 1	1	Cases, soc.
Athens	Nov. 1-30	18	4	Including Pirœus.
Do Herakleion	Jan. 1-31 Feb. 4	14	3	On island of Crete.
Patras	Nov. 13-Dec. 12		1	VALABRIADE OF VERTOR
Hawaii Territory:			1 .	Yes on room Themse infected and
Paauilo				Jan. 29, 1926: Plague-infected rat found in vicinity.
India				Oct. 18-Dec. 26, 1925: Cases, 13,255; deaths, 9,344. Dec. 27, 1925-Jan. 2, 1926: Cases, 1,877; deaths, 1,333.
Bombay	Dec. 6-12 Jan. 3-9	1 2	1 2	13,259; deaths, 9,344. Dec. 27,
Calcutta	Dec. 6-12	1 1	1 1	deaths, 1,333.
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		4	1 3	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Karachi	.  Nov. 1-Dec. 19			
Calcutta Karachi Madras	Dec. 6-12 Nov. 1-Dec. 19 Oct. 25-Nov. 7	75	41	
Madras Do. Do. Do. Do.	. Nov. 15-21	. 35	22	

### Reports Received from December 26, 1925, to March 19, 1926-Continued

#### PLAGUE-Continued

Placo	Date	Cases	Deaths	Remarks
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India-Continued.	Oct., 25-Dec., 26	23	15	
Do	Oct. 25-Dec. 26 Dec. 27-Jan. 23	14	12	
Indo-China				September, October, 1925: Cases, 25; deaths, 23. September,
Province— Cambodia	Sept. 1-30	11	11	1924, fatal, 12. September, 1924: Cases, 9; deaths,
Cochin China	September-Octo- ber.	14	12	September, 1924; 1 case, 1 death.
Iraq: Bagdad Do	Dec. 13-Jan. 2 Jan. 24-30	7	3 4	
Java: Batavia	Oct. 24-Nov. 6	94	89	Province.
Do	Nov. 14-Jan. 1 Jan. 2-22. Sept. 27-Oct. 17 Nov. 15-Dec. 19 Oct. 20-Nov. 9	315	297	
Do	Jan. 2-22	121	117	
Cheribon	Sept. 27-Oct. 17		166	
Do Djokjakarta	Nov. 15-Dec. 19		96	Epidemic in 1 locality.
Kediri	Dec. 7.			Do.
Pekalongan	Sept. 27-Oct. 17		42	
Do	Mary O Thee 10		131	
Rembang	. Oct. 20			Do.
Surabaya	Oct. 11-Dec. 26	59	59	
Tegal	Sort 27-Oct 17	16	16	
Do	Nov. 8-Dec. 19		29	
Madagascar				Nov. 1-30, 1925: Cases, 232;
•				deaths, 220.
Province-	G 10 O-1 01			
Itasy Do	Sept. 16-Oct. 31 Nov. 16-30 Sept. 16-Nov. 30	20 13	20	
Moramanga	Sept 16-Nov 30	25	25	
Tananarive	dodo	368	341	
Town	1	i	1	
Fort Dauphin	. do	6	3	
Tamatave (port)	Sept. 16-30	3	2 9	
Tananariya	Copt 16-20	9 2	2	
Do	Nov. 1-30	11	11	
Do Mauritius Island	Nov. 1-30 Sept. 20-Dec. 26	21	18	
Pamplemousses	.) Oct. 1-Nov. 30	3	2	
Port Louis	. do	1 4	1	
Rivière du Rempart Netherlands Indies:	do	2		
Celebes Island—	-	1		
Makassar	Dec. 12			Epidemic.
Do	. Jan. 6-12	2	2	
Nigeria Peru:	. August-October	400	371	
Huacho	Jon 26	15		Port 60 miles north of Callao,
Lima	Jan. 26 Jan. 1-31	20	**********	In hospital. Some cases in prov-
				ince. 12 or 15 cases reported unofil-
Mollendo	do			12 or 15 cases reported unoill-
Russia	May-June	67		Gidily.
DoSenegal	May-June July-September	157		
Senegal	MADIATADAT—CLARA	45	25	
Siam	ber, Aug. 23-Oct. 31 Nov. 15-28			
Bangkok	Nov 15-99	53 3	43	
Do	Jan. 3-23	38	32	
Straits Settlements:	1	•	02	
Singapore	Nov. 1-Dec. 5	8	8	
Syria: Beirut	Nov. 11-20	1		1
Union of South Africa: Cape Province—		_	********	
Kimberley district Middleburg district	Dec. 13-19	1		
Middleburg district	Dec. 6-12 Nov. 15-21	1		European.
Orange Free State—	140V. 10-Z1	1		Native. On farm.
Boshof district	Nov. 29-Dec. 5	1	1	In native.
Bothaville district	Dec. 6-12	1	1	Native. On ferm.

### Reports Received from December 26, 1925, to March 19, 1926—Continued

#### PLAGUE- Continued

Place	Date	Cases	Deaths	Remarks
On vessel: Steamship Cid				Jan. 29, 1926. At Buenaventura, Columbia. Rat was killed while jumping ashore from vessel (See Public Health Reports, Feb. 26, 1926, p. 408.)
	SMAI	LPOX		
Algeria: Algiers. Do	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-31	177 64 36		
Arabia: Aden Do Argentina:	Nov. 29-Dec. 5 Jan. 10-Feb. 6	1 3	₁ .	Imported.
Rosario Australia: Queensland— Brisbane	October	1	1	
Bahamas	Dec. 9-10-11-1			In Nassau district. Stated to have been imported. Re- ported under date of Feb. 23, 1926.
Brazil: Para Rio de Janeiro Do. Do. British East Africa:	Jan. 10-30 Nov. 1-28 Dec. 6-26 Dec. 27-Jan. 16	25 1 <b>34</b> 65 37	5 72 26 29	
Kenya— Mombasa Do. Uganda Protectorate British South Africa:	Nov. 15-Dec. 19 Dec. 27-Jan. 2 Sept. 1-Oct. 31	14 1 8	64	From mainland.
Northern Rhodesia Southern Rhodesia Canada	Jan. 5-11 Nov. 13-Dec. 23	2 3		Sept. 13–Jan. 2: 1n 7 Provinces, 186 cases. Jan. 3–23,1926, cases, 115. Jan. 31–Feb. 6, 1926, cases, 33. – Feb. 21–27, 1926, cases, 36.
AlbertaCalgary	Jan. 10-Feb. 27 Dec. 13-19	29 1		From Drumheller, vicinity of Calgary.
British Columbia— Vancouver  Manitoba Winnipeg  Do  New Brunswick—	Jan. 4-10 Jan. 3-Feb. 27 Dec. 13-19 Jan. 3-Feb. 6.	26 2 9		, ,
Northumberland. Ontario Do Do Admaston	Dec. 6-13 December, 1025 Jan. 1-Feb. 13 Feb. 21-27	103	1	
Ottawa Do Torento Do	Jan. 1-31. Dec. 6-12. Jan. 3- Feb. 6. Dec. 27-Jan. 2. Jan. 3-23.	1 1 21		
10	Feb. 6-27 Jan. 1-31 Jan. 3-Feb. 13 Feb. 21-27do Jan. 24-30	39 10 2		
Saskatoon. Ceylon: Colombo. Do.	Feb. 14-20	1 1 2	*****************	Port case.

### Reports Received from December 26, 1925, to March 19, 1926—Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
China:	0-1-05-0-10			
Amoy	Oct. 25-Dec. 19 Jan. 10-30	~~~~~	1	Present.
DoAntung	Dec. 7-20	2		ricsont.
Chungking	Nov. 15-Jan. 28	·		Do.
Foochow	Nov. 1-Jan. 23			Do.
Hankow	Nov. 14-Dec. 26	4		
Do	Jan. 10-16	1		
Hongkong Do	Nov. 22-Dec. 26 Jan. 3-23	4 4		
Manchuria— An-shan	Dec. 6-12	1		
Do	Jan. 10-30	3		South Manchurian Railway.
Changchun	do	10		Do.
Dairen	Oct. 19-Dec. 27	73	15	
D0	Dec. 28-Jan. 17 Jan. 31-Feb. 6	27	6	
Changchun	Jan. 17-23	1 1		Do.
Fushun Harbin	Tan 1-7	l i		170.
Kai-yuan	Jan. 1-7. Jan. 10-30.	4		Do.
Kungchuling	Jan. 31-Feb. 6	ı		1 20.
Lio-yang	Jan. 31-Feb. 6 Jan. 17-23 Oct. 24-Nov. 15 Jan. 24-30	i		Do.
Mukden	Oct. 24-Nov. 15	ī		Do.
Do	Jan. 24-30	ī		Do.
Tieh-ling	la0_	t Z		
Nanking.	Nov. 21-Dec. 26			Present.
DoShanghai Do	Dec. 27-Jan. 9 Oct. 25-Jan. 2			Do.
Shanghai	Oct. 25-Jan. 2	37	36	
D0	Jan. 3-Feb. 6	39	77	Cases, foreign only.
Swatow	Nov. 22-Jan. 30	2		Prevalent.
Tientsin Do	Nov. 1-Dec. 19 Jan. 23-30	1 1		
Egypt:	Jan. 20-00	1 1		•
Alexandria	Dec. 3-31	5	2	1
Do	Jan. 8-14	2	l ī	,
Do	Jan. 29-Feb. 4	2	l ī	
Esthonia				November, 1925: Cases, 3.
France				September-October, 1925: Cases,
Gold CoastGreat Britain:	September, 1925	14	4	91.
England and Wales	***************			Nov. 15-Dec. 26, 1925: Cases, 790. Dec. 27-Jan. 30, 1926: Cases,
Hull_	Dec 27-Top 23	20	1.1	1,520.
. Do	Dec. 27-Jan. 23 Feb. 7-20 Jan. 14-Feb. 6	6		
Laeris	Jan. 14-Feb. 6	4		
Leeds Newcastle-on-Tyne	Nov. 29-Dec. 19	l ê		
Do.	Dec. 27-Feb. 20	21		
Do Nottingham	Nov. 22-Dec. 26	9		
Do	Dec 27-Ten 0	2		
Sheffield	I NOV. 22-Dec. 12	7		
Do	Dec. 20-20	3		
DoSouth Shields	Dec. 27-Feb. 0	12		Damantal supposed in passage ages
Greece.	Feb. 9		~~~~	Reported present in several orm.
Athens.	Nov. 1-30	17	1	Oct. 1-31, 1925: Cases, 16.
Do	Jan. 1-31	23	i	
India				Oct. 18-Dec. 26, 1925; Casas.
Bombay	Nov. 8-Dec. 26	26	20	19,472; deaths, 4,440. Dec. 27.
Do	Dec. 27-Jan. 16	45	22	Oct. 18-Dec. 26, 1925: Cases, 19,472; deaths, 4,440. Dec. 27, 1925-Jan. 2, 1920: Cases, 3,869; deaths, 986.
Calcutta	Nov. 29-Dec. 26	48	25	deaths, 986.
Do	Dec. 27-Jan. 23	129	63	•
Karachi	Nov. 1-21 Nov. 29-Dec. 5	23		
Do	Nov. 29-Dec. 5	4	2	
Do	Dec. 13-19	3		
Do Madras	Dec. 29-Jan. 30	21	9	
Rangoon	Jan. 24-30 Oct. 25-Nov. 28	4 3	1	
Rangoon	Dec. 6-26	4	7	
Do	Dec. 27-Jan. 16	13	1	4

### Reports Received from December 26, 1925, to March 19, 1926—Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Indo-China				September-October, 1925: Cases,
				201; deaths, 62. September, 1924; Cuses, 78, deaths, 22.
Province— Annam	Sept. 1-Oct. 31	90	23	September, 1924: Cases, 8;
Cambodia	_L(lo	72	30	deaths, 2. September, 1924: Cases, 16; deaths, 1
Cochin China Saigon Do	Dec. 21–27	61 2	30 1	September, 1924: Cases, 43; deaths, 19.
Do	Jan. 1-17	$\bar{2}$		Including 100 kilometers of sur- rounding country.
Tonkin	*************	22		Sept. 6-Oct. 17, 1925; Cases, 81;
Bagdad	Nov. 1-Dec. 26 Dec. 27-Jan. 30	19 11	15 4	deaths, 40.
Genoa	Jan. 21-Feb 10	4		Aug. 2-Oct. 31, 1925; Cases, 38.
Rome Jamaica	Oct. 12-25	1		Nov. 29-Dec. 26, 1925: Cases, 95.
Vanatan	Nov. 29-Dec. 26	43		Dec. 27-Jan. 30, 1926; Cases, 138. Reported as alastrim. Reported as alastrim.
Kingston	Dec. 27-Jan. 30	48		Do.
Taiwan Yokohama	Nov. 11-Dec. 10	3		
Java:	Dec. 14-20 Feb. 23	7		
Batavia .	Oct. 24-30 Nov. 14-Dec. 25	1 7		
Builcuzorg	Nov. 29-Dec. 5 Nov. 8-Dec. 12	1 2		
Kraksaan Malang	Oct. 11-17 Oct. 11-Jan. 2	111		,
North Bantam Pekalongan	Oct. 25-31	1		1 + +
Probolingo	Oct. 11-Dec. 26	633	104	,
Do South Bantam Tegal	Oct. 11-17	1	16 i	
Latvia Malta	Nov. 1-Dec. 31		3	December, 1925: Cases, 3.
Do Mexico	11071 1-1500, 011111			Jan. 1-31, 1926: Cases, 15. July-September, 1925: Deaths,
Agnascalientes	Jan. 3-30	L	3 7 4	1,157.
Do Durango	Feb. 14-27 Dec. 1-31		1 1	
Do Guadalajara Mexico City	Jan. 1-31	L	11	to a successive to the first of the first
	1 '	i		Including municipalities in Federal District.
Do. Sun Luis Potosi			33	Do.
Tampico Do Torreon.	Jan. 2-Feb. 20	5	51	1
Do	1 +10111 0000 0000000000000000000000000		33	u
The Hague	Jan. 30-Feb. 6	1	1	AugOct., 1925: Cases, 211;
Palestine:				deaths, 6.
Hebron Persia:		i	,	
Teheran Peru:		1	1 .	
Arequipa	. Oçt. 1-1766, 31		2	Nov. 1-28, 1925: Cases, 9.

### Reports Received from December 26, 1925, to March 19, 1926-Continued

	SMALLPOX	Conti	nued	
Place	Date	Cases	Deaths	Remarks
Portugal:	Andready of a divine white the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the			
Lishon	Oct. 4-31	124		
Do	Nov. 16-Dec 27	127	60	
Do	Nov. 14-Dec. 26	187	00	· ************************************
D0	Dec. 27-Jan 31	40	23	
Oporto	Nov. 22-Dec. 19	2	3	
Do	Dec. 27-Feb. 13	2	ĭ	
Russia	Dec. 21-2 eb. 10.1.	1 -		May-June, 1925: Cases, 2,333.
Do	July-August	760		1123 -5 tille, 1520: Cases, 2,000.
	July-August	100		July 12-Sept. 5, 1925: Cases, 21
Siam Bangkok	Dog 90 95	3	i	deaths, 6.
	Dec. 20-25 Dec. 26-Jan. 23	13	1 ;	deaths, o.
Do	Dec. 20-Jan. 23	13		l .
Sierra Leone: Konno district	Dec. 16-31	5	i	
	Dec. 10-31	0		1
Spain:	***** ** ****	l	10	l .
Madrid	Year 1925		18	
Malaga	Nov. 29-Dec. 5		2	i
Do			1	
Valencia	Dec. 20-26	1		
Do	Dec. 27-Jan. 2			
Do	Jan. 10-Feb. 6	9		
Straits Settlements:			į.	
Singapore	Dec. 20-26	1		1
Switzerland				June 28-Nov. 21, 1925; Cases, 62
Lucerne	Oct. 1-Nov. 30	8		1
Zurich	Dec. 27-Jan. 2	1		
Trinidad (West Indies):		1		
Port of Spain	Jan. 22	1		Imported.
Tunisia:		ł	1	· -
Tunis	Nov. 21-30	2		ľ
Do	Dec. 11-31	10	1	
Do	Jan. 1-20	5		
Union of South Africa:		· -		
Cape Province	Jan. 17-23		l	Outbreaks
Orange Free State-				
Kuruman district	Jan. 10-16	1		Do.
Ladybrand district	Dec. 27-Jan. 2			Do.
Transvaal—	1	Į.	Į.	
Belfast district	do	1	1	Do.
Germiston district	Jan. 2-9	1		Do.
Pretoria district		1		Outbreaks. In native compound
On vessel	Feb. 21	2		Mexican steamer Montezuma, a
		1 -		Port of Ensenada, Mexico.
	TYPHU	S FEVE	R R	
	1	1		
Algeria:	<b>t</b> *	1		
Algiers	Nov. 1-Dec. 20	2		
Argentina:		-		
Poppin	Oat 12-Dec 21			

Algeria:	<b>†</b> *				
Algiers	Nov. 1-Dec. 20	2	1		
Argentina:	1404. 2-1500. 20111	-			
Rosario	Oct. 13-Dec. 31	2			
Bulgaria	Sept. 1-Nov. 30	20	2		
Sofia.	Dec. 25-31	40			
Do	Jan. 8-14	2	~~~~		
Chile:	Jan. 6-14	-			
Valparaiso	Nov. 29-Jan. 2	1 .	2		
China:	1407. 20-3411. 2				
Antung	Nov. 29-Dec. 27	5			
Do	Jan. 4-10	9	1		
Hongkong	Dec 27-Jan. 2				
Mauchuria—	Dec 21-3un. 2	1			
Harbin	Dec. 17-Feb. 4	3	ĺ	,	
Czechoslovakia	October-November			,	
Egypt:	October-Moveluper	34			
Alexandria	Jan. 8-14	١ ,	1		
Cairo	Nov. 5-11	2	2		
Port Said	Nov. 19-25	2	2		1
	1907. 19-25	1			
Finland France	Tuly Ostabay	l <u>-</u> -		October, 1925: 1 case.	
Germany	July-October	4		1	
Greece:	Oct. 25-31	1		1	
Athens	37 1 90				
Do	Nov. 1-30 Jan. 1-31	11	2	1	
Saloniki		19	4	1	
Hungary	Dec. 29-Jan. 4	1		37	
LLUMERI Y				November, 1925; Coses 3	

#### Reports Received from December 26, 1925, to March 19, 1926—Continued

#### TYPHUS FEVER -- Continued

Place	Date	Cases	Deaths	Remarks
reland:				
Cork County-	_			
Cork.	Dec. 26-Jan. 1	2 5		
Do	Jan. 2-8			
Dumanway	Nov. 14	1		
Galway County	Oct. 17	1		
Latvia	October-December	4		
Lithuania	~=			September-October, 1925: Cases
			1	9; deaths, 1
Mexico	_,			July-September, 1925; Deaths
Aguascalientes	Dec. 14-19	1		90.
Durango	Dec. 1-31		1	
Do	Jan. 1-31		1	
Guadalajara	Dec. 8-28		2	
Do	Dec. 29-Jan. 4		1	
Mexico City.	Nov. 22-Dec. 26	145		Including municipalities in Fed
			1 1	eral District.
Do	Dec. 27-Feb. 20	58		De
San Luis Potosi	Feb. 6-13		1	
San Luis Potosi Tampico	Dec.21-Jan. 10	1	1	
Torreon	November, 1925		1	
Vera Cruz	Feb 12		1	
Morocco	August-November	39		
Norway.				November, 1925: Case, 1.
Palestine:				•
Gaza	Dec. 18.	1		
Jaffa	Dec. 18. Dec. 1-7.	i		
Nazareth	Nov. 3-9	1		
Safad	Nov 24-30	ĩ		
Tel-Aviv	do	Ī		
Peru:		_		
Arequipa	October-December	1	3	
Poland	Oct. 11-Nov. 14	142		
Rumania	000.11 1107.1111		10	July-August, 1925: Cares, 107
				deaths, 15.
Russia		ł	1	May-June, 1925: Cases, 10,680.
Do				July-September, 1925; Cases
45-4				3,851
Turkey.	1	1	1	
Constantinople	Jan. 24-30	3		
Union of South Africa.	. 000.21 00 2.12	1 "		October, 1925. Cases, 88; deaths
Opion of rotein things are area			1	1 7 (colored) ('ases Filtament
	1	1	1	7. December, 1925; Cases, 7. deaths, 9. Colored; Cases, 7.
	<b>{</b> , '	1	1	double 0 Colored Cases 7
	i	1	^	deaths, 9.
Cape Province	Oct. 1-31	63	5	Colored.
Do	Nov. 8-Dec. 31		8	- Constitution
	Jan. 3-23	1 21		Outbreaks.
Middleburg district	1.100 8-19	i	}=====================================	European, On faim,
Virtal	Dec. 6-12 Oct. 1-Dec. 5		- `	many on man
Natal. Durban	Ton 2-16			
I tuanen Vena Stata	Jan. 3-16 Nov 29-Dec. 5	23		1
Orange Free State	7300 20-1300 0. 0	23 8	1	1
Bo and and an arrangement	Dec. 1-31	4 8	1	Outbreaks.
Bethulia district	Dec. 6-12	·:-		
Bothaville district	do	1		Native. On farm
Transvaal	Oet 1-31	. 1	1	
Do	Dec. 1-31	18		Destaurantes the forms
Bloemhof district	Dec. 27-Jan. 2			Outbreaks. On farm.
Securior de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la c	YELLO	W FEVI	er	THE THE THE PART OF THE PART OF THE THE THE THE THE THE THE THE THE THE
		2	<u> </u>	
Gold Const	Santamhar _ Cata-			
Gold Coast	September - Octo- ber.	1	1	1
Gold Coast		3	2	

### TREASURY DEPARTMENT

# PUBLIC HEALTH REPORTS

ISSUED WEEKLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

Volume 41 :: :: Number 14

APRIL 2 - - 1926

### SPECIAL ARTICLES

Some Community Responsibilities of Hospitals Recent Court Decisions Relating to the Public Health



WASHINGTON
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#### UNITED STATES PUBLIC HEALTH SERVICE

Hugh S. Cumming, Surgeon General

#### DIVISION OF SANITARY REPORTS AND STATISTICS

Asst Surg. Gen. B. J. LLOYD, Chief of Division

The Public Health Reports are issued weekly by the United States Public Health Service through its Division of Sanitary Reports and Statistics, pursuant to acts of Congress approved February 15, 1893, and August 14, 1912.

They contain: (1) Current information of the prevalence and geographic distribution of preventable diseases in the United States in so far as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other communicable diseases throughout the world. (2) Articles relating to the cause, prevention, or control of disease. (3) Other pertinent information regarding sanitation and the conservation of the public health.

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# PUBLIC HEALTH REPORTS

VOL. 41 APRIL 2, 1926 No. 14

#### COMMUNITY RESPONSIBILITY OF HOSPITALS 1

By E. H. Lewinski-Corwin, Ph. D., Director, Hospital Information Bureau of the United Hospital Fund of New York; Consultant in Public Health, United States Public Health Service

The theses of this paper apply to community hospitals. By the term "community hospital" is meant a hospital in which under the law no profit can accrue to the hospital corporation. If the financial sheet of such a hospital shows no deficit, and even if it shows a surplus, the hospital does not cease to maintain its fundamental character. In spite of the fact that it does not have to appeal to the community for funds, having either large endowments or sufficient income from its operation, it continues to fulfill its basic purpose, it administers charitable trust funds left for the benefit of the community, and it enjoys exemption from taxation.

At the very outset I desire to state that, in the present discussion of the community responsibility of hospitals, only certain phases of this responsibility will be considered. A hospital's responsibilities are as numerous as are its social ramifications, and they imply not only the obligations of the hospital to the community, but also the reciprocal relation of the community to the hospital. In a brief paper all these matters can not be discussed adequately. I will therefore limit myself to the consideration of a few points.

#### 1. POLICY

One of the fundamental obligations of a group constituting the board of trustees of a hospital is the formulation of an adequate community policy. Many a hospital plan has failed because of the lack of an intelligent policy on the part of those responsible for building the hospital. The formulation of the policy depends on many factors and is often crippled by self-imposed limitations.

The first requirement of a hospital policy is a knowledge of the morbidity prevalence in the community, its extent and general character. The second requirement is a knowledge of the extent and character of hospital and other private and public health services already available, as well as of the housing and other social conditions in the community. A third requisite for the formulation of the policy is a definite ascertainment of how much of the bed capacity

¹ Read before the meeting of the American Hospital Association at Louisville, Ky., Oct. 28, 1925. 87198°—26 ——1 (605)

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should be assigned to private, how much to semiprivate, and how much to ward services.

The plans should be a part of broad social engineering and should not be dictated by consideration of immediate contingency. A statesmanlike attitude should likewise be taken with reference to providing for out-patient, convalescent, and chronic patients.

The relations of the hospital to the patients and their families, to its own medical staff, to its nursing staff, to the officers of administration, and to the various social and scientific agencies in the community, as well as to the medical profession generally, are important considerations in the formulation of a policy.

#### 2. DISCHARGE OF IMPLIED MORAL OBLIGATION

There exists a general tacit understanding on the part of the public that, on assuming their office, hospital trustees have accepted a moral obligation with respect to the community and to those who come to the hospital for treatment. A part of this tacit understanding which exists and which the average person takes for granted, is the assumption that the medical men associated with the hospital are selected on the basis of merit and for no other reasons, that the resident staffs of physicians and nurses as well as other employees are well supervised, and that no negligence of any kind, no discourtesy, and no discrimination are tolerated. The public not only assumes these things but has a right to these assumptions, and it is the responsibility of the hospital to see that this tacit trust is properly discharged.

#### 3. HIGH TYPE OF PERFORMANCE

The mere existence of a hospital with all its equipment and staff does not create a community hospital; it merely affords means for aggregating the sick. Most of the patients could be treated by the same physicians in their homes. The important feature which differentiates the treatment in the hospital from that in the patient's home is the opportunity it offers for organized and supervised team work, for critical analysis of the performance, and for the advancement of the standards of medical education and practice in the community. This assurance to the community that the practice of medicine in the hospital is of the highest type attainable and that it sets the pace and promotes the best type of general practice in the community constitutes the civic responsibility of the hospital, which is of equal importance with that of the actual care of the sick within the hospital.

Through the American College of Surgeons the medical men themselves, to their everlasting credit, created the machinery for control of their work and for raising the standards of performance. It is a

social obligation devolving upon the trustees to strengthen by every possible means the efforts of the American College of Surgeons so that the minimum standards which have been formulated by the College should not become a mere parade uniform qualifying the hospital for indorsement by the College, but, rather, a real, living, keen appreciation of community responsibility. The proceedings of the medical and surgical conferences in the hospital, the results of performance, and the "calamity book" of the hospital should be of as much vital importance to the trustees in the discharge of their community responsibility as are the financial balance sheets.

#### 4. BROADER HOSPITAL OPPORTUNITIES FOR PHYSICIANS

With regard to medical practice, the hospital's obligation is not limited to the physicians and surgeons on its own staff. Medicine has become a highly progressive science, requiring many ancillary departments for its practice, and the hospital has a community responsibility of supplying the physicians in its community with opportunities for periodic contact with the best hospital practice. In another connection I have outlined a plan whereby, it seems to me, it becomes feasible for a larger number of physicians in the community to acquire hospital connections than is the case at the present time. I am not arguing for "open" hospitals, but for a method of procedure whereby the so-called "closed" hospitals can offer hospital opportunities to a larger number of physicians and can utilize more generally their facilities for diagnostic service and for teaching.²

The enormous increase in the number of hospitals has made it possible for most, if not all, graduates of medical schools to obtain interneships if they so desire. In the large majority of instances advantage is taken of this opportunity, although only a few States make a year's hospital residence obligatory for licensure. In some instances I believe an M. D. degree is obligatory. This, to my mind, is a very desirable requirement, and I believe that all the States should go a step further and, in cooperation with the American Medical Association, certify hospitals for interne training, so that the year or two spent by an interne in a hospital will really be a year of work under competent direction and not mere drifting. The responsibility of the hospital in this field of training is increasingly recognized and should be discharged with ready cooperation in the interest of the treatment of patients as well as of the training of physicians.

#### 5. DELIMITATION OF RESPONSIBILITY FOR NURSE TRAINING

Aside from food service no other branch of hospital administration is so frequently an object of criticism by the public as that of nursing. This criticism is often unjust, and patients are frequently not willing

^{*} The Modern Hospital, November, 1925, Vol. XXV, No. 5.

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or unable to realize the difficulties under which the hospitals labor in supplying an adequate amount of competent and courteous nursing service. The criticism nevertheless persides and is, in certain ways, well founded. The hospital may not be responsible for certain deficiencies, but the community does not understand the difficulties under which the hospital labors in this connection and which are beyond its control. Institutions should make an effort to set the problems of the nursing situation clearly before the public and to define the extent of their own community obligation in the matter.

With the enormous increase in hospital facilities, on the one hand, and the expansion of opportunities which have opened themselves for women in all branches of life and work, on the other hand, the difficulty of obtaining an adequate supply of the proper kind of women to do nursing is constantly becoming greater. Furthermore, the just demands of nurses for good living quarters, proper training, and shorter hours of work, and the onerous and often impractical restrictions of some State educational authorities, are making the situation still more difficult in and outside of hospitals.

The forces governing the demand and supply of nurses are beyond the control of hospitals. The hospitals should make the community recognize this fact. The discharge of its civic obligation by the hospital with respect to nurses and nursing care is fully met when it provides the best facilities possible for the training of qualified nurses, by inculcating in them a spirit of genuine service, and by making the living and working conditions for them in the hospital as pleasant and conducive to the best results as possible.

In New York State we are by law allowed to train another group of nurses called "nurse attendants." Their educational requirements for admission to the course are lower than are the requirements in the case of nurses and their training is of nine months' duration. Not much has been done as yet by the hospitals in training this type of attendant. I believe, however, that the exigencies of the situation may call for the training of this subsidiary type of nurse in larger numbers in order that the nurses may be relieved of certain types of service in and outside the hospitals. The hospitals should take greater interest in the training of the nurse attendant as a part of their responsibility to the community for the training of caretakers of the sick.

To summarize this part of my statement, I will reformulate it by saying that with regard to nursing care the community obligation of the hospital is to provide clinical opportunities for the training of such type or types of caretakers of the sick as the combined wisdom of the organized medical profession and of the educational specialists may determine. How best technically the instruction in nonclinical subjects should be carried out is not a matter of vital concern for the

hospitals; their duty is to see that the services of the pupil nurses are properly supervised, that they are discharged with care and devotion to the task, that the patients receive an adequate amount of nursing care, and that kindliness permeates the relations between nurses and patients.

#### 6. AVAILABILITY OF HOSPITAL FACTS

The community is entitled to information with regard to the services performed by the hospitals and the costs involved in furnishing such services. This information is furnished through the annual report, which, as a rule, is inadequate in that it usually deals somewhat too much with "the dry bones of housekeeping and the hotel register" and very little with the vital thing—the medical and surgical services rendered. I do not advocate the publication in an annual report, which is intended chiefly for the laity, of detailed medical statistics, but certain facts properly interpreted as to what the hospital has accomplished during the year are essential. The more the community is apprised of the real problems and achievements of its hospitals the more likely it is to take an intelligent interest in them.

#### 7. NEED OF MORBIDITY STATISTICS

Medical statistics, however, ought to be made available in some form or other for the benefit of medical science and demography, and by making these available the hospital would be discharging a very important community responsibility. When one considers that there are upwards of half a million hospital beds in the United States, and that probably about 7,000,000 persons are cared for in the hospitals in this country annually, it will be realized what an enormous contribution the hospitals could make to the understanding of the problem of disease in its various ramifications, if in some way the cumulative experience of these hospitals could be made available. As it is, this vast and important reservoir of information is not utilized except, perhaps, in a limited way by each institution for its own immediate purposes.

In larger cities central bureaus for the collection of such statistics could be easily organized. Such central bureaus of information would give the hospitals of the community a great deal of valuable information concerning hospital needs, problems, and achievements. Moreover, a central statistical office would be in a position to render valuable service to member hospitals at a cost lower than if the hospital should attempt to do the work independently. Furthermore, it would furnish them with a basis for vital comparisons prepared on a uniform basis. In making comparisons it is essential that statistical units be strictly comparable. Hospital mortality affords a good

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example of using comparative statistics with a grain of salt. Some hospitals do not include in their mortality rate patients dying within 24 or 48 hours after admission, while others do. In the case of surgical mortality and the statistics of end-results, the latitude is much greater. It is arbitrary to set a limit of time within which a death following an operation is ascribable to it or to say that the end-result is to be judged by developments within such and such a period. Arbitrary and erroneous as some of the assumptions may be in the case of surgical statistics, they would become much more amenable to comparisons if all were subject to the same degree of error, i. e., if there existed a uniform rule of statistical procedure. Central statistical editing is more likely to bring about comparability than scattered endeavors. There is evidently a need of this kind of service, as evidenced by statements by eminent surgeons. Dr. Harvey Cushing, in one of his annual reports as surgeon in chief of the Peter Bent Brigham Hospital in Boston, discussing the surgical experience of his hospital and the desirability of comparable figures from other hospitals states:

It would be an exceedingly desirable thing if * * * steps were taken to systematize these matters and to inaugurate a uniform method of presenting the surgical reports from all major hospitals in the country. If this were done our hospital reports might become of greater clinical value for reference than many of the occasional papers in medical literature, and 1 see no reason why they should be surrendered, as many of them are, to the administrative activities of the institution alone, which, after all, are merely incidental to the main purpose of the institution—the professional care of the patients.³

Dr. William J. Mayo, in an address before the Clinical Congress of the American College of Surgeons at Montreal in 1920, stressed the value of the "study of the mass of surgical material." He says:

In order to secure a perspective which will not be distorted by the minutice the mass rather than the details should be considered. Such an investigation will sometimes point out a way by which an intensive study of outstanding failures may be made to yield valuable suggestions.⁴

Dr. Eugene H. Pool, in a discussion of end-results before the Clinical Congress of the American College of Surgeons at Boston in 1922, said:

The knowledge of the results of types of operations and the amenability or resistance of various lesions to surgical efforts is of inestimable value to the surgeon. The most effective, far-reaching instruction is derived from the grouping and analysis of an accumulated mass of these cases.

³ Sixth Annual Report (for the year 1919), Peter Bent Brigham Hospital, Boston, p. 73.

Surgery, Gynecology and Obstetrics, February, 1921, pp. 97-102.
Bulletin, American College of Surgeons, Vol. VII, No. 2, January, 1923, p. 15.

## 8. PROVISIONS FOR INSTITUTIONAL CONVALESCENCE AND FOR THE RECLAMATION OF THE "CHRONICS"

Through the social service department, the hospital gives effective evidence that its interest in the patient is not confined to his progress while in the institution. This responsibility should be made to extend a little further. Proper convalescence has been recognized as an indispensable part of the care of the sick. As Dr. John Bryant has pointed out on the basis of a vast experience, "The average patient who has been sufficiently ill to require the average length of stay of three weeks in a hospital for acute diseases, has also been sufficiently ill to require an additional average period of three weeks under observation in a convalescent home." Very often the good accomplished in the hospital is wholly or partially undone by the lack of proper convalescent care.

The extension of institutional convalescence to those who, for one reason or another, can not obtain proper convalescent care in their own homes will be directly or indirectly provided by the hospitals which take a real interest in their patients. Ample convalescent facilities make it possible for the hospitals treating acute conditions to discharge patients earlier, in this way increasing, so to speak, the effective hospital facilities of the community, and providing care in an atmosphere more conducive to recovery and at a lower cost than is possible in an acute hospital. The movement for institutional convalescence is gaining momentum.

This can not be said, however, of provision for patients suffering from chronic ailments, a sadly neglected phase of our hospital policy. The existing hospitals for the care of people afflicted with ailments generically and dismally known as chronic are too few and, with several notable exceptions, not conducted on the highest plane of scientific In many instances these hospitals are designed for custodial care of hopeless cases. There is need for institutions of this type: but what is urgently needed in addition are hospitals where chronically but not hopelessly ill patients can be salvaged and reclaimed—institutions similar to the sanatoria for the treatment of tuberculosis. of the chronic patients are not adequately cared for in the out-patient departments, to which they apply, and many others fall prey to The sufferers from the various rheumatic various charlatans or cults. diseases, from cardiac and vascular troubles of various kinds and degrees, those with mucous colitis and other gastro-enteric diseases who can not carry out the required mode of life in their homes. those with affections of the neuromuscular system, with leg ulcers and renal affections, orthopedic cases, and many others require the facilities of such special institutions. Boas, Rappleye, and others

⁶ Boston Medical and Surgical Journal, Jan 25, 1923.

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have called attention to the need of study of the progress of chronic diseases; and these hospitals, when properly manned, will offer an opportunity for such study. The hospitals can hardly shirk their community responsibility in providing for the adequate study and care of this huge group of sufferers.

#### 9. PROVISION FOR CONTAGIOUS DISEASE ISOLATION

There are only two more points which I should like to bring up in this limited paper. One is the lack of provision, in the smaller communities, of isolation units in the hospitals to take care of emergency cases of contagious disease. A tragic incident was recently reported by the New York State Department of Health.7 A child was taken severely ill with sore throat in the country near a small city, and the mother, who was a summer resident, brought the child to the hospital. The admitting physician recognized the case as diphtheria and refused to admit it. The child was already in a moribund condition, and the suggestion was made that it be taken to the office of the health officer of the town. When finally the child was brought to the office of the physician it was dead. The report of the health department contains the following comment on the case: "Just what, if any, moral obligation rests upon a hospital in the face of such an emergency is a question of judgment which could be determined only with all the facts at hand."

The report also points out what seems to be a clear community responsibility on the part of the hospital: "There should be provided in every city, by some means, a place in which cases of communicable disease may be isolated and cared for in emergencies. If there is a general hospital, this would seem to be the logical place."

#### 10. PARTICIPATION IN HEALTH PROMOTION

With the modern emphasis upon prevention of disease, the hospital can not afford to abstain from an active and direct part in the health-promotion movement. The idea of periodic medical examinations of well or apparently well persons is taking root, and the hospital would be discharging a very important function and community responsibility if it placed its facilities at the disposal of this important health crusade.

As I stated in the beginning, within the compass of a short paper only a limited number of community responsibilities can be touched upon. From this brief list of the long array of community responsibilities of the hospitals, one can easily draw the deduction that there is hardly any other institution in the social structure that has so many community responsibilities of so vital a character as has the modern hospital.

Health News, New York State Department of Health, Vol. II, No. 37, Sept. 14, 1925.

#### PUBLIC HEALTH ENGINEERING ABSTRACTS

The following abstracts of current articles relating to sanitary engineering are taken from Public Health Engineering Abstracts, prepared by sanitary engineers of the Public Health Service and of the State departments of health, and other persons, and issued by the Division of Domestic Quarantine. In presenting these abstracts no attempt is made to cover completely the entire field of literature on the subject, and only those abstracts will be printed here which are believed to be of especial interest to public health workers.

The heat drying of sludge at the Baltimore Sewage Works. C. E. Keefer. Engineering News-Record, vol. 96, No. 6, February 11, 1926, pp. 238-240. (Abstracted by J. K. Hoskins.)

The experience of Baltimore in converting sludge into fertilizer base over a period of 6½ years by contract with an operating company is narrated in detail.

The drying plant consisted of two heat driers, conveyors, grinders, screens, and accessories. The drier was a rotary, boiler-plate kiln 6 feet in diameter and 40 feet long, with stationary shelves on the interior. A hand-fired furnace at the inlet end supplied heat to the rotating kiln.

The plant was first operated by a private company under a fiveyear contract beginning February 15, 1916, the city to deliver airdried sludge to the contractor and to receive 81 cents per ton for the heat-dried product. The net loss to the contractor, until the plant was destroyed by fire in 1917, was \$2.23 per ton. After the fire the net loss per ton of heat-dried sludge was 50 cents. No difficulty was encountered in disposing of the product to fertilizer companies who used it as a base for commercial fertilizer.

Because of these losses a modified agreement was entered into at the end of the first contract whereby the city should pay all operation deficits. Losses continued and the city finally shut down the plant in January, 1923. Detailed financial statements and quantities of sludge treated are presented in tabular form.

During 1922, farmers hauled away 6,272 cubic yards of air-dried sludge, which cost the city to lead on their wagons 15 to 20 centsper ton as compared with \$2.69 a ton for heat-drying it.

The experience indicates that heat drying was an expensive method of sludge disposal for Baltimore. The high costs are attributed to excessive overhead expenses, cost of hauling the material to its destination, sand and gravel content of the air-dried sludge, and its low nitrogen (2 per cent) content.

Opinion and decision of the railroad commission of Wisconsin in re investigation of pollution of Flambeau River at Park Falls. (W. P. 234). Decided February 20, 1926. 64 pages. Published by the commission. (Abstracted by J. K. Hoskins.)

This excellent publication summarizes the evidence presented before the commission in regard to stream pollution by wood pulp and paper mill wastes, and its effect on fish life, together with specific evidence in the case and the decision of the commission.

After citing the laws and court decisions governing the subject of stream pollution, the general or basic evidence presented at the hearings is reviewed and then summarized as follows:

- 1. The discharge of industrial waste into certain streams is the only practical method of ultimate disposal in many cases, and constitutes a necessary and proper use of the stream, but only provided that the dilution is so great as not to be materially objectionable as a menace to public health or interference with the natural aquatic life of the stream.
  - 2. Factors affecting fish life may be summarized as follows:
- (a) Reduction of the dissolved oxygen in the water of a stream to less than 2 parts per million for any material length of time results in death or migration of practically all fish.
- (b) Some wastes, such as gas-plant wastes, mine drainage, and certain chemical wastes are toxic or poisonous to fish.
- (c) Plant growth is necessary for fish life, and fish may seek other habitat due to change in the plant or aquatic life of the stream.
- (d) Pollution is more deleterious to young fish, particularly just after absorption of the food sac, than to adult fish.
- (e) The discharge of large quantities of suspended matter forms sludge beds in the stream and interferes with spawning and the spawn. It is also possible that certain fiber wastes accumulate in the gills of fish and cause deleterious effects.
- 3. Nearly all wastes, either through chemical or biological reaction, cause reduction of the dissolved oxygen of the stream, industrial wastes generally having a greater oxygen demand than domestic sewage.
- 4. During warm weather biological oxidation is more rapid than in cold, so that the oxygen demand of the waste is greater although the actual amount of oxygen available is less because warm water retains less oxygen in solution. Furthermore, the tolerance of fish is less in warm than in cold water and their oxygen requirements are greater.
- 5. When the dissolved oxygen of a stream is depleted, green plants and other classes of aerobic life die and anaerobic organisms, such as worms and lower animal life, prevail.
- 6. A stream tends to purify itself by natural processes and will ultimately return practically to normal if the concentration of the wastes is not too great and sufficient time elapses before there is additional pollution.
- 7. While some streams in Wisconsin are badly polluted, it is reasonably practicable so to control this pollution as not materially to affect the aquatic life of the stream.

The paper industry in Wisconsin is next discussed, the pulping process described and the nature and extent of wastes resulting from the various processes as well as methods of recovery of by-

products is considered. The specific evidence relating to the Park Falls case is then reviewed in detail, including the analytical data. The findings are next presented. The commission, recognizing that no practical method of treatment of sulphite waste exists, recommends that the paper industry organize its various units and maintain "a sustained, systematic, and scientific search for the solution of the problem of the disposal of the waste materials from the pulp and paper mills, in cooperation with such State and Federal agencies as may be available." Jurisdiction is reserved to enter an affirmative order for the period of one year.

A bibliography of papers and publications offered in evidence is appended, together with a list of 39 papers having a direct bearing on the problems involved.

How nature destroys microbes in water. Fernand Arlong, M. D. Fire and Water Engineering, vol. 78, No. 24, December 9, 1925, pp. 1283-1284 and 1317-1318. (Abstracted by F. J. Moss.)

Pollution of the soil, the air, and the waters is almost continuous, but spontaneous combustion takes place, without which life would become impossible in a medium infected by the microbes of putrefaction and of a wide range of diseases. Bacteriologists, following Pasteur, Chauveau, and others have given to this phenomenon of the destruction of bacteria, that is, the dissolution of the microbes, the term "bacteriolyse" or "bacteriolicid."

The natural destruction of microbes has been attributed to the light of the sun, and more particularly to the ultra-violet rays and the calorific rays. Desiccation, by the oxygen in the air, and mechanical action have also been considered factors in the destruction of microbes. Apart from the physical agents of destruction, microbes are found that may attack other microbes and destroy them.

In 1917 d'Herelle filtered the discharges from a dysentery patient in convalescence through a Chamberland porcelain filter and demonstrated that the addition of a few drops of this filtered solution prevented the development of dysentery bacillus in a cup of culture. This destruction of the culture is what is commonly termed "the d'Herelle phenomenon." The virus of d'Herelle is so small that it will pass through the closest porcelain filter; and the failure of a culture to develop or the destruction of the visible microbes is the only visible evidence we have of its development. Since the virus produces the destruction of the microbe which it devours, it is now commonly designated as the "bacteriophage."

In the cure of certain diseases, such as dysentery, paratyphoid, typhoid fever, and the like, the bacteriophage plays an important part in destroying the bacteria which produce these diseases.

A number of experiments were performed relative to the destruction of dangerous microbes in water by the bacteriophage principle.

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In these experiments several samples of the water were filtered through porcelain filters L 3, and then a few drops of this water were added to the microbic cultures. As soon as the filtered solution became empowered with the bacteriocidal power the cultures would not develop. It was found that all waters do not possess an equal bacteriocidal power, and certain waters are without any particular power of this kind. Still other waters exercise a very marked destructive action with regard to some particular microbe.

The different waters which were examined and their bactericidal power are noted.

#### COURT DECISIONS RELATING TO PUBLIC HEALTH

Occupational diseases not compensable under workmen's compensation act.—(Oklahoma Supreme Court; St. Louis Mining & Smelting Co. et al. v. State Industrial Commission et al., 241 P. 170; decided September 15, 1925.) Under the Oklahoma Workmen's Compensation Act an "injury or personal injury" meant "only accidental injuries arising out of and in the course of employment and such disease or infection as may naturally result therefrom." The supreme court Lated that "the basis of a claim for compensation must be a casualty occurring without expectation or foresight," and held that occupational diseases were excluded as a basis of compensation. The disease in question in the instant case was anthracosis, commonly referred to as coal miner's disease.

County-tax levy for tuberculosis fund upheld.—(Oklahoma Supreme Court; Simmons v. Stuckey, County Treasurer, et al., 241 P. 124; decided October 27, 1925.) In an action in which it was alleged that certain items of tax included in a county-tax levy were illegal and erroneous, one of the items in dispute was that of 0.09 mill for a tuberculosis fund. The court held this item to be fully authorized by the legislature under the provisions of section 8970 of the Compiled Oklahoma Statutes, 1921.

Requirement of permit preceding installation or alteration of plumbing upheld.—(California First District Court of Appeal; Ex parte Nichols, 241 P. 399; decided October 2, 1925.) In this, a habeas corpus proceeding, the petitioner was convicted on a charge of having violated a plumbing ordinance of the city and county of San Francisco in that he had installed and changed a sewer pipe on certain premises without first obtaining a permit as required. He was sentenced to pay a fine, and in default of such payment to be imprisoned. Having been committed, he sought his release on habeas corpus. In its opinion the court stated as follows:

No provision being made by the charter [of the city and county of San Francisco] regulating the installation or alteration of such [sewerage] systems in premises privately owned, or for the granting of permits therefor or inspection by the authorities of such work either during its progress or upon completion, and such regulation being within the powers granted to the supervisors, the requirement that a permit therefor be granted by the board of health, and that there be an inspection thereof by officers duly authorized, is not in conflict with the powers of the board of public works, or a delegation to the board of health of the power to legislate as to the terms or conditions upon which a permit should issue, but a proper preliminary requirement in order that it might be ascertained that the work or alteration proposed would be in accordance with the sanitary regulations of the board of supervisors, and might at the proper time be inspected to the end that the public health be preserved and protected.

Resolutions in connection with county sanitation district held published according to law.—(California Supreme Court; County Sanitation District No. 4 of Los Angeles County v. Payne, Auditor, 241 P. 264; decided November 20, 1925.) A county sanitation district made an application for a writ of mandamus to compel the county auditor, who was ex officio auditor of the sanitation district, to sign certain bonds. The auditor claimed that he was justified in withholding his signature from said bonds for the reason that the publication of certain resolutions in connection with the sanitation district was not in accordance with law. The supreme court decided that the auditor should affix his signature to the bonds, holding as follows:

- (1) That the publication of a resolution, by a county board of supervisors of its intention to create a sanitation district, in a newspaper of general circulation within the proposed district but not actually printed and published in the proposed district, there being no newspaper printed and published in the proposed district, was a sufficient publication and a compliance with the provisions of section 2 of chapter 250, Laws of 1923.
- (2) That the publication of a resolution, calling an election regarding bonded indebtedness of a sanitation district, in 5½-point type with a 6-point slug was a substantial compliance with section 4459 of the Political Code, which required type not smaller than non-pareil (6 point).

### DEATHS DURING WEEK ENDED MARCH 13, 1926

Summary of information received by telegraph from industrial insurance companies for week ended March 13, 1926, and corresponding week of 1925. (From the Weekly Health Index, March 17, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week ended Mar. 13, 1920	Corresponding week, 1925
Policies in force	63, 606, 360	58, 976, 770
Number of death claims	14, 724	12, 722
Death claims per 1,000 policies in force, annual rate.	12. 1	11. 2

Deaths from all causes in certain large cities of the United States during the week ended March 13, 1926, infant mortality, annual death rate, and comparison with corresponding weck of 1925. (From the Weekly Health Index, March 17, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week ene		Annual death rate per	Deaths ye	under 1 ar	Infant mortality rate,
City	Total deaths	Death rate ¹	1,000 corre- sponding week, 1925	Week ended Mar. 13, 1926	Corresponding week, 1925	week ended Mar 13, 1926 ²
Total (70 cities)	9, 908	17.7	15. 0	1, 107	1, 037	3 90
Akron Albany 4 Atlanta White Colored Baltimore 4 White Colored Burningham White Colored Boston Bridgeport Buffalo Cambridge Camden Canton Chicago 4 Cincinnati Cleveland Colored Dayton Dallas White Colored Dayton Derror Derror Derror Derror Duluth El Paso Eric Fall River 4 Fint Fort Worth White Colored Colored Canden Colored Colored Dayton Derror Derror Derror Derror Colored Dayton Derror Derror Derror Derror Derror Douluth El Paso Eric Fall River 4 Fint Fort Worth White Colored Colored Grand Rapids	38 42 69 31 38 256 175 81 108 44 64 64 272 41 129 225 57 17 94 41 129 225 57 41 45 45 45 45 45 45 45 45 45 45 45 45 45	(5) 16. 8 (2) 27. 4 (3) 18. 2 (2) 16. 7 15 3 23 1 1 1 15. 4 12. 5 12. 1 15. 4 (4) 17. 9 18. 9 17. 9 18. 9 17. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18. 9 18	15. 0 17. 7 17. 0 17. 0 17. 3 15. 0 11. 3 15. 8 9. 8 14. 2 16. 2 17. 3 11. 6 16. 3 13. 3 12. 5 12. 3 15. 4 16. 2 12. 0 12. 2 12. 0	4 1 1 11 7 4 4 26 66 6 6 6 6 6 6 6 6 6 9 9 9 9 9 9 9 9	1,037  10 6 8 8	3 90 43 21 76 46 211 110 85 88 86 66 152 22 212 75 78 28 29 100 100 100 100 100 100 100 10
White	32 21 114 96	( ⁵ ) 16, 6	. 17.7	5 4 15 10	15	110 84
Colored Jacksonville, Fla. White. Colored Jersey City Kansas City, Kans. White. Colored	18 52 26 26 128 43 33	(5) 25. 8 (9) 21. 2 19. 3	17.4 12.4 15.7	5 5 3 2 2 13 2 2 2 2	4 5 6	275 104 98 114 92 35 42
Kansas City, Mo Los Angeles Louisville White Colored Lowell Lynn	117 250 104 78 26 30	(5) 16. 6 18. 0 (5) 14. 2 16. 7	19. 0 16. 1 20. 3 10. 1	14 15 15 11 4 2 2	24 21 8 7 1	42 129 110 251 37

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.

³ Data for 65 cities.

⁴ Deaths for week ended Friday, Mar. 12, 1926.

⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended March 13, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, March 17, 1926, issued by the Bureau of the Census, Department of Commerce)—Continued

		ded Mar. 1920	Annual denth rate per	Deaths ye		Infant mortality rate,
City	Total deaths	Death rate	1,000 corre- sponding week, 1925	Week ended Mar. 13, 1926	Corre- sponding week, 1925	week ended Mar. 13, 1926
Memphis	74	22, 1	20, 6	5	7	
White	37			3 2 17		
Colored	37 102	(5) 10. 6	11.7	17	16	79
Minneapolis	113	13.8	13.8	12	20	67
Nashville 4	68 40	26.0	26. 0	$\frac{2}{1}$	9	
Colored	28	(5)		1		
New Haven	25	10.9	17.4	4	8 5	70
New Orleans	59 170	17. 2 21. 4	11.7 22.5	7 18	20	96
White	103			10	20	
Colored New York	67 2, 183	(5) 19.4	14.3	8 227	176	• 92
Brony Borough	269	16.1	11.5	19	170	63
Brooklyn Borough	743	17. 6	12.4	84	57	85
Manhattan Borough Queens Borough	921 186	24. 7 13. 6	18. 8 9. 7	93 22	80 18	103 100
Richmond Borough	64	24.1	20.4	9	4	158
Newark, N. J Norfolk	135 49	15.6	12.4	14 6	6 7	67 112
White	23			2		59
Colored	26	(1)		4		199
Oaklahoma City	51 33	10.5	12.3	8 6	9	93
Omaha	61	15.0	11.8	8	5	84
Paterson Philadelphia	48 930	17 7	13.6	7 85	7 70	122 113
Pittsburgh.	208	24. 7 17. 2	16 1 25 3	30	51	100
Pittsburgh Portland, Oreg Providence &	51	9.4	11.8	3 2 4 3	4	31 17 50 50 35 72
Richmond	87 68	16.9 19.0	12.5 15.7	4	14 5	50
White	40			ŝ		59
Colored Rochester	28 166	⁽⁵⁾ 27. 3	11.9	1 9	7	35
St. Louis.	267	16.9	16.4	11	20	
St. PaulSalt Lake City 4	50	10.6	11.7	6	5	53 28
San Antonio.	25 65	10. 0 17. 1	13.5 16.6	2 8	6	20
San Diego	46	22.6	22.6	8 2	1	42
San Francisco	163 19	15. 2 10. 7	13.7 15.7	14 2	10	84 58
Seattle.	75	10.7	10.7	6	3	56
Somerville	23	12.1	17. 9	. 3 8 9	. 4	52
Spokane Springfield, Mass Syracuse	40 43	19. 2 15. 8	17. 2 13. 6	. 8	5 3	70 116
Syracuse	89	25.5	12.9		11	114
Tacoma Toledo	26 76	13.0 13.8	6. 5 15. 2	2 9	0	47 87
Trenton	49	19.4	16.6	6	6	100
Utica Washington, D. C.	39	20.0	14.9	1 2	5	44
White	179 98	18.7	14.2	22 10	12	125 83
Colored	81	(5)		12		219
Waterbury Wilmington, Del	25 56	23. 9	14. 5	4	6	86 94
Worcester	57	15.6	18.3	6		69
Youngstown	36	16.5	9. 2	1 6	3 3	135 102
Youngstown	39	12.7	9.8	8	3	102

### PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control discase without knowledge of when, where, and under what conditions cases are occurring

### UNITED STATES

#### CURRENT WEEKLY STATE REPORTS

These reports are preliminary and the figures are subject to change when later returns are received by the State health officers

#### Reports for Week Ended March 27, 1926

ALARAMA		CALIFORNIA	
	Cases	Cerebrospinal meningitis:	Cases
Chicken pox	85		
Diphtheria		Fresno County	
Influenza	1, 169	Humboldt County	
Lethargic encephalitis	1	Los Angeles	
Malaria	10	Oakland	
Measles	228	Chicken pox	
Mumps	79	Diphtheria	
Pellagra		Influenza	. 30
Pneumonia.		Lethargic encephalitis-Los Angeles	. 2
Poliomyelitis		Measles	. 180
Scarlet fever		Mumps	. 363
Smallpox	•	Poliomyelitis-Los Angeles County	
Tuberculosis		Rabies (human)	
		Scarlet fever	117
Typhoid fever	-	Smallpox	
Whooping cougn	04	Los Angeles	. 46
ARIZONA		Los Angeles County	
Chicken pox		Oakland	
Diphtheria	5	Scattering.	
Influenza	26	Trichinosis -Glendale	. 7
Measles	6	Typhoid fever	
Mumps	5	Title-ming counts	
Pneumonia		Whooping cough	. 52
Scarlet fever			
Trachoma		COLORADO	
Tuberculosis.		Chicken pox	. 53
Whooping cough		Diphtheria	. 25
*	_	German measles	. 11
ARKANSAS		Influenza	_ 1
Chieken pox		Jaundice (infectious)	
Diphtheria		Lethargic encephalitis	
Influenza.		Measles	
Malaria		Mumps	
Measles		Pneumonia.	
Mumps		Scarlet fever	
Peliagra	-		
Scarlet fever		Smallpox	
Smallpox		Tuberculosis	
Tuberculosis		Typhoid fever	. 1
Typhoid fever		Vincent's angina	. 1
Whooping cough	22	Whooping cough	. 81
	(62	20)	

CONNECTICUT	1	GEORGIA—continued	
	Cases		Cases
Cerebrospinal meningitis	2	Scarlet fever	7
Chicken pox	54	Septic sore throat	12
Conjunctivitis (infectious)	1	Smallpox	58
Diphtheria	25	Tuberculosis.	23
German measles	7	Typhoid fever	2
Influenza	531	Whooping cough	60
Macasles	811		
Mumps	18	IDAHO	
Paratyphoid fever	1	Cerebrospinal meningitis—	
Pneumonia (broncho)	113	Aberdeen	1
Pneumonia (lobar)	110	American Falls	3
Poliomyelitis	1	Glenns Ferry	1
Scarlet fever	95	Idaho Falls	3
Septic sore throat		Post Falls	2
Tuberculosis (all forms)		Chicken pox.	9
Typhoid fever		Diphtheria	7
Whooping cough	147	Influenza	4
DELAWARE		Measles	29
Anthrax	1	Mumps	31
Chicken pox.	5	Scarlet fever	20
Diphtheria	3	Smallpox	3
Influenza	12	Tuberculosis	1
Measles		Typhoid fever	3
Pneumonia.	4	Whooping cough	7
Scarlet fever		* -	
Tuberculosis		ILLINOIS	
Whooping cough	4	Cerebrospinal meningitis—Cook County	1
	•	Diphtheria	72
DISTRICT OF COLUMBIA		Influenza	479
Chicken pox		Lethargic encephalitis—Tazewell County	1
Diphtheria	6	Measles	
Influenza		Pneumonia	
Measles		Scarlet fever	383
Pneumonia.		Smallpox	24
Scarlet fever		Tuberculosis.	365
Smallpox		Typhoid fever	9
Tuberculosis		Whooping cough	198
Typhoid fever			
Whooping cough	35	INDIANA	
FLORIDA		Chieken pex	67
Chicken pox	63	Diphtheria	16
Diphtheria	13	Influenza	324
Influenza	54	Measles	1,828
Measles	69	Mumps	5
Mumps	21	Pneumonia	35
Pneumonia	16	Scarlet fever	222
Scarlet fever		Smallpox	91
Smallpox		Trachoma	8
Tuberculosis		Tuberculosis	38
Typhoid fever		Typhoid fever	2
Whooping cough		Whooping cough	150
		IOWA	
GEORGIA			
Chicken pox		Chicken pox	15
Diphtheria		Diphtheria	9
Dysentery		Influenza	347
Hookworm disease		Measles	106
Influenza		Mumps	18 36
Malaria		Pneumonia	
Measles		Scarlet fever	40 28
Mumps.		Smallpox	
Pellagra		Tuberculosis	
Pneumonia.	118	Whooping cough	. 7

Kansas	1	MASSACHUSETTS	
	Cases		Cases
Cross Captilla Land	Cases 1	Anthrax	2
Republic Wichta	1	Cerebrospinal meningitis	8 153
Chicken pox	110	Chicken pox	13
Diphtheria	22	Diphtheria	70
German measles	24	Dysentery	1
Influenza	56	German measles	261
Measles	586	Influenza	590
Mumps	-40	Lethargic encephalitis	3
Pellagra	1	Measles	930
Pneumonia	81	Mumps	114
Scarlet fever	77	Ophthalmia neonatorum	16
Smallpox	5	Pneumonia (lobar)	250
Tetanus	1	Poliomyclitis	1
Tuberculosis	72	Scarlet fever	260
Typhoid fever	1	Septic sore throat	2
Whooping cough	168	Trachoma	1
LOUISIANA		Tuberculosis (pulmonary)	123
	10	Tuberculosis (other forms)	43
Diphtheria Influenza	107	Typhoid fever	6
Malaria	7	Whooping cough	419
Measles	19	MICHIGAN	
Pneumonia.	48	Diphtheria	72
Scarlet fever	22	Measles	
Smallpox	34	Pneumonia	396
Tuberculosis	24	Scarlet fever	409
Typhoid fever	7	Smallpox	9
MAINE		Tuberculosis	35
	25	Typhoid fever	10
Chicken pox		Whooping cough	235
German measles		MINNESOTA	
Influenza.	149		129
Measles	228	Chicken pox	32
Mumps.		Influenza	2
Pneumonia		Measics	381
Scarlet fever	26	Pneumonia	3
Septic sore throat	. 4	Scarlet fever	365
Tuberculosis	. 20	Smallpox	21
Typhoid fever		Trachoma	1
Vincent's angina		Tuherculosis	61
Whooping cough	. 36	Typhoid fever	3
maryland ¹		Whooping cough	42
Construccional mainigitie		MISSISSIPPI	
Cerebrospinal meinigitis. Chicken pox			11
Diphtheria		DiphtheriaInfluenza.	455
German measles.	3	Scarlet fever	3
Influenza	169	Smallpox	11
Lethargic encephalitis		Typhoid fever	2
Malaria			
Measles		MISSOURI	
Mumps	178	Cerebrospinal meningitis	1
Pneumonia (broncho)		Chicken pox	93
Pneumonia (lobar)	. 85	Diphtheria	52
Scarlet fever	40	Influenza	26
Septic sore throat	. 1	Measles	752
Tuberculosis	. 76	Mumps	45
Typhoid fever	. 5	Pneumonia.	17
Vincent's angina Whooping cough	. 2	Rabies (in animals)	5 947
Week ended Friday.	. 48	Scarlet fever	267

MISSOURI—continued	a	NEW YORK	
	Cases 9	(Exclusive of New York City)	
Smallpox Trachoma	25	(2002001100021011011011011011011011011011	Cases
Tuberculosis	25	Chicken pox	245
Typhoid fever	1	Diphtheria	69
Whooping cough	119	Dysentery	7
-		German measles	165
MONTANA		Influenza	
Cerebrospinal meningitis	2	Measles	-
Chicken pox	25	Mumps	174
Diphtheria	1	Ophthalmia neonatorum	1
German measles	44	Pneumonia	932
Influenza	20	Scarlet fever	270
Measles	18	Septic sore throat	2
Mumps	18	Smallpox	1 2
Poliomyelitis	1	Tetanus	_
Rocky Mountain spotted fever	2	Trachoma	1 13
Scarlet fever	90	Typhoid fever Vincent's angina	2
Smallpox	15	Whooping cough	393
Typhoid fever	3	w nooping cough	030
Whooping cough	14	NORTH CAROLINA	
NEBRASKA		Chicken pox	185
Chicken pox	19	Diphtheria	21
Diphtheria	4	German measles	299
Influenza	10	Measies	302
Measles	27	Scarlet fever	22
Mumps	17	Septic sore throat.	2
Pneumonia	4	Smallpox	40
Poliomyelitis	1	Whooping cough.	133
Rabies	1		
Scarlet fever	62	OKLAHOMA	
Smallpov	17	(Exclusive of Tulsa and Oklahoma City)	١
Tuberculosis	3		,
	- 1		
Whooping cough	- 1	Cerebrospinal meningitis:	
Whooping cough	- 1	Muskogee	1
Whooping cough	30	Muskogee Tiliman County	1
Whooping cough	30	Muskogee Tillman County Chicken pox	1 19
Whooping cough  NEW JERSEY  Anthrax  Cerebrospinal meningitis	30 1 1	Muskogee Tillman County Chicken pox Diphtheria	1 19 17
New Jersey  Anthrex Cerebrospinal meningitis Chicken pox	30 1 1 156	Muskogee Tillman County Chicken pox Diphtheria Influenza	1 19 17 1, 523
New Jersey  Anthrax Cerebrospinal meningitis Chicken pox Diphtheria	30 1 1 156 82	Muskogee Tillman County Chicken pox Diphtheria Influenza Malaria	1 19 17 1, 523 18
Whooping cough  NEW JERSEY  Anthrax  Cerebrospinal meningitis  Chicken pox  Diphtheria  Influenza	30 1 1 156 82 177	Muskogee Tillman County Chicken pox Diphtheria Influenza Malaria Measles	1 19 17 1, 523 18 30
Whooping cough  NEW JERSEY  Anthrax  Cerebrospinal meningitis Chicken pox  Diphtheria Influenza Measles	30 1 1 156 82 177	Muskogee Trilman County Chicken pox Diphtheria Influenza Malaria Measles Mumps	1 19 17 1, 523 18 30 9
NEW JERSEY Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Peratyphoid fever	30 1 1 156 82 177 1,960	Muskogee Tillman County Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra	1 19 17 1, 523 18 30 9
Whooping cough  NEW JERSEY  Anthrax  Cerebrospinal meningitis Chicken pox  Diphtheria Influenza Measles	30 1 1 156 82 177 1,960	Muskogee Tiliman County Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia	1 19 17 1, 523 18 30 9
NEW JERSEY Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Paratyphoid fever Pneumonia	30 1 1 156 82 177 1,960 1 279	Muskogee Tillman County Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever	1 19 17 1, 523 18 30 9 7 185 . 53
Whooping cough  NEW JERSEY  Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Pæratyphoid fever Pneumonia Poliomyelitis	30 1 1 156 82 177 1,960 1 279 1	Muskogee Tillman County Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox	1 19 17 1, 523 18 30 9 7 185 . 53 17
Mhooping cough  NEW JERSEY  Anthrax  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Pæratyphoid fever Pneumonia Pollomyelitis Scarlet fever Smallpox Trachoma	30 1 1 156 82 177 1,960 1 279 1 184 3 1	Muskogee. Tillman County. Chicken pox Diphtheria. Influenza. Malaria. Measles. Mumps. Pellagra Pneumonia. Scarlet fever. Smällpox. Typhoid fever.	1 19 17 1,523 18 30 9 7 185 . 53 17
Whooping cough  NEW JERSEY  Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Pæratyphoid fever Pneumonia Poliomyelitis Scarlet fever Smallpox Trachoma Typhoid fever	30 1 1 156 82 177 1,960 1 279 1 184 3 1 4	Muskogee Tillman County Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Typhoid fever Whooping cough	1 19 17 1,523 18 30 9 7 185 . 53 17
Mhooping cough  NEW JERSEY  Anthrax  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Pæratyphoid fever Pneumonia Pollomyelitis Scarlet fever Smallpox Trachoma	30 1 1 156 82 177 1,960 1 279 1 184 3 1 4	Muskogee. Tillman County. Chicken pox Diphtheria. Influenza. Malaria. Measles. Mumps. Pellagra Pneumonia. Scarlet fever. Smällpox. Typhoid fever.	1 19 17 1,523 18 30 9 7 185 . 53 17
Whooping cough  NEW JERSEY  Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Pæratyphoid fever Pneumonia Poliomyelitis Scarlet fever Smallpox Trachoma Typhoid fever	30 1 1 156 82 177 1,960 1 279 1 184 3 1 4	Muskogee Tillman County Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Typhoid fever W hooping cough	1 19 17 1, 523 18 30 9 7 185 . 53 17 4 39
Mhooping cough  NEW JERSEY  Anthrax  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Pæratyphoid fever Pneumonia Poliomyelitis Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough	30 1 158 82 177 1,960 1 279 1 184 3 1 4 81	Muskogee Tiliman County Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Typhoid fever Whooping cough OREGON Cerebrospinal meningitis	1 19 17 1, 523 18 30 9 7 185 . 53 17 4 39
Mhooping cough  NEW JERSEY  Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Pæatyphoid fever Pneumonia Pollomyelitis Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough  NEW MEXICO Chicken pox	30  1 1 156 82 1,960 1 279 1 184 3 1 4 81	Muskogee Tillman County Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Small pox Typhoid fever W hooping cough  OREGON Cerebrospinal meningitis Chicken pox	1 19 17 1, 523 18 30 9 7 185 . 53 17 4 39
Mhooping cough  NEW JERSEY  Anthrax Cerebrospinal meningitis Chicken pox. Diphtheria. Influenza. Measles. Pæatyphoid fever Pneumonia. Poliomyelitis. Scarlet fever Smallpox Trachoma. Typhoid fever. Whooping cough  NEW MEXICO Chicken pox. Conjunctivitis.	30 1 1 156 82 177 1,960 1 279 1 184 3 1 4 81	Muskogee. Tillman County. Chicken pox Diphtheria. Influenza. Malaria. Measles. Mumps. Pellagra Pneumonia. Scarlet fever. Small pox. Typhoid fever. W hooping cough  OREGON  Cerebrospinal meningitis. Chicken pox. Diphtheria.	1 19 17 1, 523 18 30 9 7 185 . 53 17 4 39
Mhooping cough  NEW JERSEY  Anthrax  Cerebrospinal meningitis Chicken pox  Diphtheria Influenza  Measles Peratyphoid fever Pneumonia Poliomyelitis Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough  NEW MEXICO  Chicken pox  Conjunctivitis Diphtheria	30  1 1 156 82 177 1,960 1 279 1 184 3 1 4 81	Muskogee Tiliman County Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Typhoid fever Whooping cough  OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza	1 19 17 1, 523 18 30 9 7 185 . 53 17 4 39
Mew Jersey Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Peratyphoid fever Pneumonia Pollomyelitis Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough  NEW MEXICO Chicken pox Conjunctivitis Diphtheria Influenza	30  1 1 156 82 177 1,960 1 279 1 184 81 18 9 6 24	Muskogee Tiliman County Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Typhoid fever Whooping cough  OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles	1 19 17 1, 523 18 30 9 7 185 . 53 17 4 39
Mhooping cough  NEW JERSEY  Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Pæatyphoid fever Pneumonia Pollomyelitis Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough  NEW MEXICO Chicken pox Conjunctivitis Diphtheria Influenza Measles	30 1 1 158 82 177 1,960 1 279 1 184 3 1 4 81	Muskogee Tillman County Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Typhoid fever Whooping cough  OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Mumps	1 19 17 1, 523 18 30 9 7 185 . 53 17 4 39
NEW JERSEY Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Pæatyphoid fever Pneumonia Poliomyelitis Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough  NEW MEXICO Chicken pox Conjunctivitis Diphtheria Influenza Measles Mumps	30 1 1 156 82 177 1,960 1 279 1 184 3 1 4 81 18 9 6 24 5 18	Muskogee Tillman County Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Typhoid fever Whooping cough  OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Mumps Pneumonia	1 19 17 1,523 18 30 9 7 1853 .53 17 4 39 4 65 14 72 35 47 26
NEW JERSEY Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Paratyphoid fever Pneumonia Pollomyelitis Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough  NEW MEXICO Chicken pox Conjunctivitis Diphtheria Influenza Measles Mumps Pneumonia	30  1 1 156 82 177 1,960 1 279 1 184 3 1 4 81 18 9 6 24 5 18	Muskogee Tiliman County Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Typhoid fever Whooping cough  OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Rocky Mountain spotted fever	1 19 1, 523 18 30 9 7 185 53 17 4 39 4 65 14 72 35 47
Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Pæratyphoid fever Pneumonia Poliomyelitis Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough  NEW MEXICO Chicken pox Conjunctivitis Diphtheria Influenza Measles Mumps Pneumonia Poliomyelitis	30  1 1 156 82 177 1,960 1 279 1 184 81 18 9 6 24 5 18 19	Muskogee Tillman County Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Typhoid fever Whooping cough  OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Rocky Mountain spotted fever Scarlet fever	1 19 17 1, 523 18 30 9 7 7 185 53 17 4 39 4 65 14 72 35 47 61 121
NEW JERSEY  Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Peratyphoid fever Pneumonia Pollomyelitis Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough  NEW MEXICO Chicken pox Conjunctivitis Diphtheria Influenza Measles Mumps Pneumonia Pollomyelitis Rabies (in animals)	30 1 1 158 82 177 1,960 1 279 1 184 3 1 4 81 18 9 6 24 5 18 18 19 13 14 18 18 18 18 18 18 18 18 18 18	Muskogee Tiliman County Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Typhoid fever Whooping cough  OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Rocky Mountain spotted fever	1 19 17 1, 523 18 30 9 7 185 53 17 4 39 4 65 14 72 2 35 47 26 11 2 2
Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Paratyphoid fever Pneumonia Poliomyelitis Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough  NEW MEXICO Chicken pox Conjunctivitis Diphtheria Influenza Measles Mumps Pneumonia Poliomyelitis	30 1 1 156 82 177 1,960 1 279 1 184 3 1 4 81 18 9 6 24 5 18 19 1 1 1 1 1 1 1 1 1 1 1 1 1	Muskogee Tiliman County Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Typhoid fever Whooping cough  OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Rocky Mountain spotted fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever	1 19 17 1, 523 18 30 9 7 185 53 17 4 39 65 14 72 35 47 6 1 1 21 2 1 12
NEW JERSEY Anthrax Cerebrospinal meningitis Chicken pox. Diphtheria. Influenza. Measles Pæratyphoid fever Pneumonis. Poliomyelitis Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough  NEW MEXICO Chicken pox. Conjunctivitis. Diphtheria Influenza. Measles Mumps. Pneumonia. Poliomyelitis. Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough  NEW MEXICO Chicken pox. Conjunctivitis. Diphtheria Influenza. Measles Mumps. Pneumonia. Poliomyelitis Rabies (in animals) Scarlet fever.	30  1 1 156 82 177 1,960 1 279 1 184 3 1 4 81 18 9 6 24 5 18 19 1 3 7 1	Muskogee Tiliman County Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Typhoid fever Whooping cough  OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Rocky Mountain spotted fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever	1 19 17 1, 523 18 30 9 7 185 53 17 4 39 65 14 72 35 47 6 1 1 21 2 1 12
Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Pæratyphoid fever Pneumonia Poliomyelitis Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough NEW MEXICO Chicken pox. Conjunctivitis. Diphtheria Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough NEW MEXICO Chicken pox. Conjunctivitis. Diphtheria Influenza Measles Mumps Pneumonia Poliomyelitis Rabies (in animals) Scarlet fever Soptic sore throat.	30  1 1 156 82 177 1,960 1 279 1 184 3 1 4 81 18 9 6 24 5 18 19 1 1 3 7 1 16	Muskogee. Tillman County. Chicken pox Diphtheria. Influenza. Malaria. Measles. Mumps. Pellagra Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough.  OREGON  Cerebrospinal meningitis. Chicken pox. Diphtheria. Influenza. Measles Mumps. Pneumonia. Rocky Mountain spotted fever. Scarlet fever. Scarlet fever. Scarlet fever. Scarlet fever. Scarlet fever. Septic sore throat. Smallpox.	1 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 1

2 Deaths.

PENNSYLVANIA	a !	TEXAS—continued	Cases
Actinomycosis—Philadelphia	Cases 1	Influenza	508
Anthrax	. 1	Measles	7
Chicken pox		Mumps	27
Diphtheria.		Pellagra	ŧ
German measles		Pneumonia	
Impetigo contagiosa	7	Rabies (human)	3
Lethorgic encephalitis:		Scarlet fever	47
Erie		Smallpox	111
Mifflintown		Tuberculosis	24
Malaria		Typhoid fever	
Measles.		Whooping cough	73
Mumps		UTAH	
Ophthalmia neonatorum—Philadelphia		Chicken pov	27
Pneumonia		Diphtheria	
Scabies		Influenza	6
Scarlet fever		Measles	
Smallpox Dhiladalahia		Mumps	
Trachoma—Philadelphia		Pneumonia	
Tuberculosis Typhoid fever		Scarlet fever	
W hooping cough		Whooping cough	107
W Hooping cought	121	VERMONT	
RHODE ISLAND		Chieken pox	
Chicken pox		Measles	
Diphtheria		Mumps	
German measles		Scarlet fever	2
Influenza		Whooping cough	14
Measles		Washington	
Mumps.	1	Cerebrospinal meningitis:	
Pneumonia		Seattle	5
Scarlet fever		Spokane	
Tuberculosis	. 3	Chicken pox	
W hooping cought	. ,	Diphtheria	. 1
. SOUTH DAKOTA		German measles	
Chicken pox		Influenza	
Diphtheria		Measles	
Measles		Mumps	
Mumps		Pneumoma	
Pneumonia Scarlet fever		Scarlet fever	
Smallpox		Septic sore throat	
Tuberculosis		Smallpox Tuberculosis	
Typhoid fever.	7	Typhoid fever	
Whooping cough	2	Whooping cough	
	_		•
TENNESSEE	- 1	WEST VIRGINIA Diphtheria	
Cerebrospinal meningitis:	1	Influenza	
Memphis	. 1	Measles	
Roane County		Scarlet fever	
Chicken pox	. 42	Smallpox	
Diphtheria		Tuberculosis	
Influenza		Typhold fever	
Malaria		Whooping cough	. 1
Measles		Wisconsin	
Pellagra		Milwaukee:	
Pneumonia	-	Chicken pox	. 12
Scarlet fever		Diphtheria	. 1
Smallpox		German measles	. :
Trachoma	_ 2	Influenza	
Tuberculosis Typhoid fever	- 56	Lethargic encephalitis	
Whooping cough	- 5 - 25	Measles	. 11
'	- 20	Mumps	
Chieken poxTEXAS	465	Pneumonia	
Tiriht baria	_ 105	Scarlet fever	
Diphtheria Dysentery		Tuberculosis	
~ J~~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	- 1	I TY MODDING COURTS	, ő:

wisconsin—continued	wisconsin—continued			
Scattering:	Cases	Scattering-continued	Cases	
Cerebrospinal meningitis	. 2	Typhoid fever	_ 1	
Chicken pox	_ 130	Whooping cough		
Diphtheria	_ 32	WYOMING		
German measles	_ 58	Chicken pox	. 8	
Influenza	_ 298	Diphtheria	_ 1	
Lethargic encephalitis	_ 4	German measles	. 4	
Measles	670	Influenza		
Mumps	_ 125	Measles		
Pneumonia	_ 20	Mumps		
Poliomyelitis	. 1	Rocky Mountain spotted fever	. 1	
Scarlot fever	_ 194	Scarlet fever		
Smallpox	. 8	Septic sore throat	3	
Tuberculosis	. 29	Whooping cough		

#### Report for Week Ended March 20, 1926

NORTH DAKOTA	Cases	NORTH DAKOTA—continued	Cases
Cerebrospinal meningitis	. 2	Mumps	
Chicken pox	. 21	Pneumonia	39
Diphtheria	. 12	Poliomyelitis	2
German measles	. 87	Scarlet fever	
Influenza	. 88	Smallpox	
Lethargic encephalitis	. 2	Tuberculosis	6
Measles		Whooping cough	7

#### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week.

State	Cere- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
February, 1996 Delaware. Georgia. Illinois. Kansas. Louisiana. Maryland. Minnesota. Missouri. New York. North Carolina. Ohio. Okialomni. West Virginia. Wyoming.	1 8 7 5 4 4 2 6 6 18 1 3 2 2 3 0 0	11 53 392 72 67 105 219 357 840 114 389 60 74 2	26 4, 305 243 334 2, 276 2, 799 9 179 1, 020 40 3, 891 286	1 41 5 0 8 1	682 393 3, 397 691 5, 951 511 14, 226 859 15, 090 983 18	8 1 6 0	0 2 7 1 0 0 1 2 12 4 5 5 0 0	9 27 2, 129 336 64 212 1, 733 1, 052 1, 769 149 1, 639 161 152 67	1 70 163 55 250 4 54 34 3 115 308 80 25	2 12 49 4 50 11 26 13 80 9 42 16 47

¹ Exclusive of Tulsa and Oklahoma City.

## PNEUMONIA (ALL FORMS) AND INFLUENZA

Deaths reported in large cities of the United States during two-week periods ended March 21, 1925, and March 20, 1926

#### PNEUMONIA (ALL FORMS)

				1	<u> </u>				
		Week	ended—				Week e	nued-	
	Mar. 14, 1925	Mar. 13, 1926	Mar. 21, 1925	Mar. 20, 1926		Mar. 14, 1925	Mar. 13, 1926	Mar. 21, 1925	Mar. 20, 1926
AtlantaBaltimoreBirmingham	12 39 11 27	11 43 14	15 67 17	13 55 12 76	Nashville New Bedford New Haven	5 7 2 10	13 7 10	3 5	13
Boston Bridgeport Buffalo Cambridge, Mass Camden	5 16	47 3 25 1 19	17 25 3 21 3 6	76 6 34 12 15	New Bedford New Orleans New Orleans New York New York Nowark Norfolk Oakland Oklahoma City Omaha Philedelphia	207 17 6 5	500 39 13 8	10 237 19 5 8	15 608 38 17 7 5
Camorioge, Mass Canden Canton Chicago Cincinnati Cleveland Columbus	132 13 45	193 13 39	108 21 29	252 15 53	Oklahoma City Omaha Philadelphia Pittsburgh	6 10 78 84	13 238 40	2 15 51 79	11 194 35
Dallas Denver Detroit Duluth Elizabeth	14 50	8 7 22 103	18 3 11 57 5	12 117 117	Portland, Oreg Providence Reading Richmond Rochester	10 14 3 5	8 11 7 32	10 13 5 6	10 12 17 6 38
Elizabeth El Paso Erie Fall River	5 3 7 5 4	3 8 5 2 1	6 3 3 8	8	Omaha Philadelphia Pittsburgh Portland, Oreg. Providence. Reading. Richmond. Rochester. St. Paul. Salt Lake City. San Antonio. San Diego. San Francisco. Scheneetady. Somerville.	11 4 5 2 7 4 6	7 5 12	10	8
Erie. Fall River. Fall River. Filnt. Fort Worth. Grand Rapids. Hartford. Houston.	2 2 13 3	5 2 1 9 9 2 5 15	6 3 6 8	14 5 8 6 14	San Francisco Scheneetady Somerville Springfield, Mass Syracuse	6 3 8	2 7 2 6 4 13	8 2 8 3 7	11 3 4 4 5 6 21
Houston Indianapolis Kansas City, Mo Los Angeles Louisville Lowell	11	23 29 13 17	8 30 28 22 21 10	5 8 6 14 29 18 22 36 9 3	Schenectady Somerville Springfield, Mass Syracuse Tacoma Toledo Trenton Washington Waterbury Wilmington, Del Worcester	15 5 16 6	3 7 8 31 5	1 2 2 18 4	7 11 23 7 16 12
Lynn Memphis Minneapolis	14 17	3 19 9	5 5 14	3 9 17	Wilmington, Del Worcester Youngstown	13 5	13 7 2	10 7	16 12 7
	7			INFLU		<del>,</del>			,
AtlantaBaltimore	2 2	11 20	10 10	17 6	Nashville New Bedford	5	2	5	12
Birmingham Boston Bridgeport Brifalo Cambridge, Mass Camden	2 2 7 7 1	22 1 4 2	6 1 2	6 4 5 3	Nashville New Bedford New Haven New Orleans New York Newark Norfolk Oakland Oklahoma City Omaha Philadelphia Pittsburgh Portland, Oreg Providence Reading Richmond Rochoster St. Paul	14 25	1 85	2 7 26 1	12 87 2
Canden Canton Chicago	17	12	30	49 7	Oakland. Oklahoma City Omaha	1 2	2 1	2	2
Camden Canton Chicago Cincinnati Cleveland Columbus Dallas Denver Detroit Duluth Elizabeth El Paso	3 3 14	4 2 3 8	5 3 13	14	Philadelphia Pittsburgh Portland, Oreg	10 5	79 1 1	12 13	61 9
Denver Detroit	14 3 1	15 20	5 6	11 3 18	Reading Richmond	, 1	7	1 2	4 2
Elizabeth El Paso	4	3	5	4	St. Paul Salt Lake City	3	26 1		16 3 4
Erie Fall River Flint Fort Worth	3	7	3 1	1	Salt Lake City San Antonio San Diego San Francisco Schenectady	1 3	7 1 3	1 1 1	
Flint			1 1 4 3	i	Schenectady Schenectady Somerville Springfield, Mass Syracuse Tacoma Toledo	1 1 2	1 5	2 2	2 5
Indianapolis Kansas City, Mo Los Angeles Louisville Lowell	12	8	14	8 4	Toledo	4 2	1 6 1	3	5 4
Lynn Memphis Minucapolis	1	8 2	3 2	6 3	Trenton		5		

627 April 2, 1926

#### RECIPROCAL NOTIFICATIONS

Notifications regarding communicable diseases sent during the month of February, 1926, to other State health departments by departments of health of certain States

Referred by—	Diph-	Scarlet	Small-	Tuber-	Typhoid
	theria	fever	pox	culosis	fever
Connecticut Illinois Minnesota New York New Mexico		1 1 1	4	7 26	1 2

#### PLAGUE-ERADICATIVE MEASURES IN LOS ANGELES, CALIF.

The following items were taken from the reports of plague-eradicative measures from Los Angeles, Calif.

Week ended Mar. 13, 1926:

Number of rats trapped	2,562
Number of rats found to be plague infected.	0
Number of squirrels examined	907
Number of squirrels found to be plague infected	0
Number of mice trapped	2, 306
Number of mice found to be plague infected	0

Date of discovery of last plague-infected rodent, Nov. 6, 1925.

Date of last human case, Jan. 15, 1925.

#### GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended March 13, 1926, 37 States reported 1,094 cases of diphtheria. For the week ended March 14, 1925, the same States reported 1,505 cases of this disease. One hundred and one cities, situated in all parts of the country and having an aggregate population of more than 30,300,000, reported 665 cases of diphtheria for the week ended March 13, 1926. Last year for the corresponding week they reported 928 cases. The estimated expectancy for these cities was 987 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-four States reported 16,631 cases of measles for the week ended March 13, 1926, and 4,060 cases of this disease for the week ended March 14, 1925. One hundred and one cities reported 9,859 cases of measles for the week this year, and 2,478 cases last year.

Poliomyelitis.—The health officers of 37 States reported 16 cases of poliomyelitis for the week ended March 13, 1926. The same States reported 15 cases for the week ended March 14, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-seven States—this year, 3,949 cases; last year, 4,451 cases; 101 cities—this year, 1,767 cases; last year, 2,372 cases; estimated expectancy, 1,236 cases.

Smallpox.—For the week ended March 13, 1926, 37 States reported 880 cases of smallpox. Last year for the corresponding week they reported 896 cases. One hundred and one cities reported smallpox for the week as follows: 1926, 233 cases; 1925, 340 cases; estimated expectancy, 143 cases. Thirteen deaths from smallpox were reported by these cities for the week this year—at Los Angeles, Calif.

Typhoid fever.—One hundred and thirty-four cases of typhoid fever were reported for the week ended March 13, 1926, by 36 States. For the corresponding week of 1925, the same States reported 219 cases of this disease. One hundred and one cities reported 47 cases of typhoid fever for the week this year and 53 cases for the corresponding week last year. The estimated expectancy for these cities was 35 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 95 cities, with a population of more than 29,700,000, as follows: 1926, 2,262 deaths; 1925, 1,382.

#### City reports for week ended March 13, 1926

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of opidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

		Ohick-	Dipht	heria	Influ	enza	16.		-
<b>B</b> ivision, State, and city	Population July I, 1925, estimated	en pox, cases re- ported	Cases, esti- mated expec- tancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, eases re- ported	Mumps, eases re- ported	Pneu- monia, denths re- ported
NEW ENGLAND									
Maine: Portland New Hampshire:	75,333	4	1	0	2	0	26	5	3
Concord Manchester Vermont:	22,546 83,097	0	3	0	0	0	2 17	0	2
Barre Burlington Massachusetts:	10,008 24,089	0	0	0	0	0	0	0	0
Boston Fall River Springfield Worcester	779, 620 128, 993 142, 065 190, 757	67 3 19 4	60 4 4 4	14 1 0 5	12 0 2 1	1 0 1 0	157 12 211 20	55 1 0	47 1 4 7
Rhode Island: Pawtucket Providence Connecticut:	69,760 267,918	0	1 10	0	0 39	0 4	89 214	0 1	2 8
Bridgeport Hartford New Haven	(1) 180, 197 178, 927	0 5 12	8 8	5 4 0	11 0 5	0 0	5 48 • 49	000	3 5 10

¹ No estimate made.

## City reports for week ended March 13, 1926-Continued

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Division, State, and city	Population July I, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expec- tancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
MIDDLE ATLANTIC									
New York: Buffalo New York Rochester Syracuse New Jersey:	538, 016 5, 873, 356 316, 786 182, 003	28 178 3 16	14 227 8 5	12 109 9 6	21 883 104 138	2 85 26 5	2, 220 80 112	2 53 2 27	25 500 32 13
Camden Newark Trenton	128, 642 452, 513 132, 020	12 55 10	5 17 4	5 6 2	6 30 38	6 0 6	13 485 6	0 4 0	19 39 8
Pennsylvania: Philadelphia Pittsburgh Reading	1, 979, 364 631, 563 112, 707	102 41 7	83 21 3	66 11 0	14	79 1	457 49 9	19 1 7	238 40 11
EAST NORTH CENTRAL									
Ohio: Cincinnati Cleveland Columbus Toledo Indians:	409, 333 936, 485 279, 836 287, 380	8 37 20 46	10 27 4 5	5 30 3 3	0 9 0	4 2 3 1	10 556 458 59	6 2 0 1	13 39 8 7
Fort Wayne Indianapolis South Bend Terre Haute Illinois:	97, 846 358, 819 80, 091 71, 071	10 41 4 0	3 8 1 1	1 1 3 1	0 0 0	0 1 0 0	1,005 0 5	0 2 0 0	0 23 9 7
Chicago Peoria Springfield	2, 995, 239 81, 564 63, 923	127 7 20	102 1 0	51 0 0	301 0 4	12 2 3	112 0 11	24 29 5	193 3 1
Michigan Detroit Flint Grand Rapids	1, 245, 824 130, 316 153, 698	38 5 9	54 5 3	43 4 1	50 4 0	20 0 0	827 11 22	13 4 0	103 9 2
Wisconsin: Kenosha Madison	50,891 46,385	14	2	0	0	0	0	0	1
Madison Milwaukee Racine Superior	509, 192 67, 707 39, 671	117 11 0	15 1 0	10 3 0	1 0 0	1 0 0	87 0 0	57 20 0	14 0 0
WEST NORTH CENTRAL									
Minnesota: Duluth	246,001	7 97 36	1 16 15	0 15 12	0	0 2 1	182 18	0 3 5	3 9 7
Davenport Sioux City Waterloo Missouri:	(1) (1) 36,771	2 5 8	1 1 0	0 0 1	0 0 0		0 1 9	000	
Kansas City St. Joseph St. Louis	367, 481 78, 342 821, 543	38 1 48	, 7 1 41	8 1 66	12 0 3	8 0 3	317 1 121	0 11	23 5
North Dakota: FargoGrand Forks South Dakota:	26, 403 14, 811	2 2	1 0	1 0	0	1	. 0	15 0	2
Aberdeen Sioux Falls Nebraska:	15,036 30,127	4 19	0	0	0	0	15 15		
Lincoln Omaha Kansas:	60,941	8 6	2 4	0			31		0 13
Topeka Wichita	55,411 88,367	22	, 1	2 0			10 105	2	3 5

¹No estimate made.

City reports for week ended March 13, 1926-Continued

			Dipht	heria	Influ	enza			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Measles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
SOUTH ATLANTIC									
Delaware: Wilmington	122, 049	4	2	7	0	5	72	0	13
Maryland: Baltimore Cumberland	796, 296 33, 741	83 0	26 1	$^{12}_{2}$	60	11 0	625 11	164 0	43 3
Frederick District of Columbia:	12,035	0	0	0	1	0	14	0	0
Washington Virginia:	497, 906 30, 395	22 15	12	14	0	0	212	0	31
Lynchburg Norfolk Richmond	(1)	14 6	1 2 0	0 2	0	0 7	3	0 10	13
Roanoke West Virginia:	58, 208	3	ł	1	0	0	107	0	8
Charleston Huntington Wheeling	. 63, 485	21 0 18	0 0 1	0 2 1	5 0 0	0 0	5 5 65	0	0 2
North Carolina: Raleigh	30, 371	0	0	0	0	1 2	0	0	0
Wilmington Winston-Salem South Carolina:	37, 061 69, 031	11 7	0	0 2	0	6	56	3	1 4
Charleston Columbia	73, 125 41, 225	1 2 3	1	0	0	0	0	0 1 2	9
Greenville Georgia: Atlanta	(1)		1	0		2	7	2	11
Brunswick Savannah	_ 16,809	3	0	0	0	0	0 3	0	5
Florida: St. Petersburg Tampa	26, 847 94, 743	6	- 0	<u>ī</u>	-  _i	0 2	<u>î</u>	2	2 4
EAST SOUTH CENTRAL									
Kentucky: Covington	58, 309		. 1			- 0			. 4
Louisville Tennessee: Memphis		1	1	5		8	134	13	17
Nashville	136, 220	0	2	. 0	Ō	2	85	2	13
Birmingham Mobile	65, 955	21 5 13	0	0	0	4	24 0 0		14 2 6
Montgomery  No. estimate made.		13	1		10				
WEST SOUTH CENTRAL Arkansas:	•								
Fort Smith Little Rock	31, 643 74, 216	5		0			. 0		2
Louisiana: New Orleans	414, 493	5		. 8		1 0	2		
Shreveport Oklahoma: Oklahoma City	(1)	1	. 2			1	(	0	6
Tulsa Texas: Dallas	124, 478		1	1 1	1	1		1	
Galveston Houston		i   0	) 0			) 1	1	. 0	6
San Antonio MOUNTAIN	198, 069	] ]	2		. ] ]	1 7		. 0	12
Montana:									
Billings Great Falls Helena	17, 97 29, 88 12, 03	1 (3 2 (2)		1 (		) (	1 1	14	. 0
Missoula Idaho:	12,66	3 (	) 1	•	91	1	17	' 0	1
Boise  1No estimate made.	23.04	21 (	ol o	1 (	ol (	)	1 (	)   (	0 0

## City reports for week ended March 13, 1926—Continued

	<del></del>		<del></del>								7	·	
			Chi		Diph	ther	ia.		Influ	enza	Mag		Pneu-
Division, State, a city	nd	Populatio July 1, 1925, estimate	eas	es d	Cases, esti- mated expect- ancy	re	ses 3- ted	1	ases re- rted	Deaths re- ported	Measles, cases reported	Mumps, cases re- ported	monia, deaths re- ported
MOUNTAIN—contin	ued												
Colorado: Denver Pueblo		280, 91 43, 78		29 7	8 2		11 1			15 0	18 1	1 0	22 2
Albuquerque		21, 00	00	1	1		5		0	0	1	1	3
Arizona: Phoenix		38, 66	9	2	1		0		0	1	2	0	1
Utah: Salt Lake City.		130, 94	18	30	2		0		0	0	0	25	5
Nevada: Reno		12, 66	55	0	0		0		0	0	0	0	0
PACIFIC Washington:													
Seattle Spokane		(1) 108, 89	7	40 9	5 3	ĺ	3 2		0		· 15	62 0	
Tacoma Oregon:		104, 45	5	ĭ	1		4		ō	0	4	1	3
Portland California:		282, 38	- 1	18	5		16		7	1	6	10	4
Los Angeles Sacramento		(¹) 72, 2€	30	98	35 1		33 2		20	1 2	11 1	15 7	13 3 7
San Francisco		557, 53	30	51	22		11		5	3	90	38	7
	Scar	let fever		Small	lpox				T	yphoid	fover		
				1			Tub	er-		7	T	_ Whoop- ing	Deaths,
Division, State, and city	Case esti-	Cases	Cases,	Case		aths	dear	ths	Cases esti-	Case			all
	expec	t-ported	mated expect-	port	ed por	e- ted	por	hat	mate expec	:- porte	d ported	re- ported	
	ancy		ancy		_ _				ancy				
NEW ENGLAND													
Maine:		2 5	0		0	0		0	(		, ,	6	15
Portland New Hampshire:	1	0 3	0		0	0		0	,		1	1	15 9
Concord Manchester Vermont:		2 7	ŏ		ŏ	ŏ		ŏ	}				19
Barre Burlington		1 0	0		0	0		1	0				2 11
Massachusetts: Boston	5		0		0	0		17		1	1	1	272
Fall River Springfield	1	3 2 3	0		0	Ŏ		2 2	(	) (	) (	1	27 45
Worcester Rhode Island:	1	9 7	0		0	Q		1	(	1	) (	18	57
Pawtucket Providence		$\begin{vmatrix} 1 & 1 \\ 9 & 6 \end{vmatrix}$	. 0		0	0		7	9				87
Bridgeport		9 15	0	İ	0	0		1	(				44
Hartford New Haven		7 3 6 14	0		0	0		0			8 8		60 59
MIDDLE ATLANTIC												1	
New York: Buffalo New York	2 27		0		0	0	2 1	12		<u>.</u>	1	24 93	168 2, 183
Rochester Syracuse	1 1	8 20	0		0	0	- 1	7	1 (	0	0   1	15 87	2, 183 158 89
New Jersey: Cainden	1	3 6	0		0	0		0	ł		1	0 4	57
Newark Trenton	2	5 25 5 6	0		0	0		11	1	1	0	31	152 49
Pennsylvania: Philadelphia	7		0		0	0		53	l l	İ	1	0 47	936
Pittsburgh Reading	2		0		0	0		10	l	0.	0	0 42	208 55
1 170 00	Himat			•	•	-	•	4 7	31		, honoulau		,

¹ No estimate made.

¹ Pulmonary tuberculosis only.

City reports for week ended March 13, 1926-Continued

Martine, and the second second second second second second	Scarle	t fever					Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- aucy	Cases re- ported	Deaths re- ported	Tuber- culo- sis, deaths re- ported	Cases esti- mated expect- ancy	Cases re- ported	Douths re- ported	ing cough, cases re- ported	Deaths, all causes
EAST NORTH CENTRAL											
Ohio: Cincinnati Cleveland Columbus Toledo Indiana:	13 33 9 20	25 89 21 12	2 2 1 4	2 0 3 0	0 0 0 0	12 21 2 3	0 1 0 1	0 1 0 0	0 1 0 0	29 118 2 18	129 225 65 76
Fort Wayne Indianapolis South Bend Terre Haute Illinois:	4 9 4 3	18 13 1 4	1 6 2 1	0 19 4 0	0 0 0 0	0 5 0 2	0 0 0 0	0 1 0 0	0 0 0	3 51 4 1	24 120 · 24 27
Chicago Peoria Springfield Michigan	125 4 1	186 4 0	3 1 0	0 1 0	0 0 0	62 0 3	3 0 0	0 0	0 0 0	53 10 26	944 14 26
DetroitFlint	94 6 9	117 14 22	2 1 1	0 0 0	0 0 0	22 0 0	0 0	1 0 0	0 0 0	58 16 44	454 38 43
Wisconsin: Kenosha Madison	3 3	3	1 0	0	0	0	1 0	0	0	2	5
Milwaukee Racine Superior	31 4 2	22 2 6	5 1 5	0	0 0	5 0 0	0 0	1 0 0	1 0 0	44 22 0	102 11 4
WEST NORTH CENTRAL											
Minnesota: Duluth Minneapolis St. Paul	5 39 29	15 91 70	1 11 7	0 0	0 0	0 2 5	0 1 0	0 0	0	12 4 19	17 113 57
Iowa: Davenport Sioux City Waterloo Missouri:	2 2 3	2 3 1	2 1 1	0 4 4			0 0	0		0 0 2	
Kansas City St. Joseph St. Louis North Dakota:	12 2 31	31 3 197	2 0 5	0 0 6	0 0 0	8 0 6	0 0 1	I 1 0	0 0 0	55 0 26	117 31 267
Fargo Grand Forks South Dakota;	0	9	0	0	0	0	0	0	0	3 2	14
Aberdeen Stoux Falls Nebraska:	3	6 3	0	0	Ö	0	0	0	·ō	0	7
Lincoln Omaha Kansas:	3 5	22 22	6	0 14	0	3	8	0	0	26 1	91 8
Topeka Wichita	2 2	4 2	0 2	5 0	0	0	0 0	0	0	1 8	27 22
SOUTH ATLANTIC Delaware: Wilmington	2	5	0	0	0	0	0	0	0	3	56
Maryland: Baltimore Cumberland Frederick	39 0 1	32 0 0	1 0 0	0 0 0	0	14 1 0	2 0 0	1 0 0	0	38 5 2	256 15 2
District of Col.: Washington	27	17	1	1	0	- 10	. 1	1	0	22	179
Virginla: Lynchburg Norfolk Richmond Roanoke	0 2 3 1	1 12 7 0	0 0 0 1	0 0 0 2	0 0 0	0 2 3 3	0 0 0	0 0	0 0	6 4 1 2	9 71 22
Charleston Huntington Wheeling	0 1 1	1 2 1	0	0	0 0 0	1 2 0	0 0	1 0 1	0	13 0 1	19 17 20
North Carolina: Raleigh Wilmington Winston-Salem	0 0 1	0 0 1	1 1 4	0 0 4	0 0 0	1 0 1	0 0	0	0 0 0	0 2 4	17 16 26

April 2, 1926

### City reports for week ended March 13, 1926-Continued

										,	
	Scarle	t fever		Smallpo	x	Tuber-	т	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths 18- ported	ing cough, coses 10- ported	Deaths, all causes
SOUTH ATLANTIC— continued											
South Carolina: Charleston Columbia Greenville	0. 1 0	0 0 0	0 0 1	0 2 1	0 0 0	3 0 0	0 0 0	0 0 0	0	0 0 2	30 17
Georgia: Atlanta Brunswick Savannah Florida:	4 0 1	2 0 0	3 1 0	1 0 0	0 0 0	5 0 2	0 0 0	0 0 0	0 0 0	1 0 0	69 10 33
St. Petersburg. Tampa	1 0	<u>i</u>	0 1	15	0	1 9	0 2	0	0	i	26 44
EAST SOUTH CENTRAL Kentucky:											
Covington Louisville Tennessee:	2 5	7	0	ō	0	5 8	0	ő	0 1	3	34 104
Memphis Nashvide Alabama:	3	9	2 2	6 0	0	4 3	0	1 0	0	1	74 68
Birmingham Mobile Montgomery	2 0 0	9 0 1	8 2 0	7 0 0	0 0 0	8 3 0	1 0 0	0 0 0	0 0 0	0	108 25 22
WEST SOUTH CENTRAL											
Arkansas: Fort Smith Little Rock Louisiana:	0	0 4	1 0	0		2	0	0	0	0	
New Orleans Shreveport Oklahoma:	5 0	10 1	3 2	5 0	0	21 4	2 0	1 0	1 0	6 9	170 32
Oklahoma City Tulsa Texas:	3	2 1	5 3	1 0	0	1	0	0	0	1 2	33
Dallas Galveston Houston San Antonio	2 0 1 1	10 0 0 1	5 1 1 0	6 8 14 0	0 0 0 0	2 1 4 12	0 1 0 1	0 0 0	0 0 0	9 0 0	57 21 53 65
MOUNTAIN . Montana: Billings	1	0	0	0	0	0	0	0	. 0	0	7
Great Falls Helenn Missoula Idaho:	2 0 1	1 0 2	0 0	0 0	0	0 0	0 0	0	0	7 0 1	7 5 4 7
Boise Colorado:	0	0	1	2	0	0	0	0	0	2	
Denver Pueblo New Mexico:	13	18 3	1	0	0	11 2	0	15	0	78 2	109 9
Albuquerque Arizona:	1	2	0	0	0	7	0	0	0	1	24 20
Phoenix Utah: Salt Lake City	0	1 0	0 2	0	0	5 4	0	1	0	0	25
Nevada: Reno	0	0	1	0	0	0	0	0	0	0	3
Washington: Seattle Spokane	10 4 2	32 16 2	3 6 2	5 0 23	0	0	0 0 1	0 0		7 1 15	26
Tacoma Oregon: Portland	6	10	13	3	0	4	1	0	0	3	51
California: Los Angeles Sacramento San Francisco	20 2 15	26 5 12	4 1 7	57 6 6	13 0 0	20 4 12	2 0	0	0 0 1	1 0 9	250 26 162
Dan Francisco.	10	1 12	1 ,	6	, ,	12	1 4	"	1 .	1 "	102

## City reports for week ended March 13, 1926—Continued

		rospinal ingitis	Let	hargic Shalitis	Pel	lagra	Poliom tile	yelitis paraly	(infan-
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
NEW ENGLAND									
Massachusetts: Boston	0	0	1	2	0	0	0	0	0
New York: New York	3	1	4	4	0	0	1	4	1
New Jersey: Newark	2	0	0	0	0	0	0	0	0
Pennsylvania: Philadelphia  EAST NORTH CENTRAL	0	0	1	0	0	0	0	0	0
Illinois:				_			١.		
Chicago Michigan:	1	0	1	1	0	0	1	0	0
Detroit	1 2	0 1	0	1 0	0	0	0	0	1 0
Wisconsin: Milwaukee Superior	1 0	1 0	0	0	0	0	0	0	0
WEST NORTH CENTRAL						İ			
Minnesota: St. Paul	1	0	0	0	0	0	0	0	0
Missouri: St. Louis	0	0	0	0	0	0	0	1	0
Kansas: Wichita	0	1	0	0	0	0	0	0	0
SOUTH ATLANTIC			ļ						
Maryland: Baltimore	2	0	1	1	0	0	0	0	0
District of Columbia: Washington	0	0	1	1	1	0	0	0	o
Virginia: Richmond	0	0	0	0	0	0	0	1	0
West Virginia: Huntington	0	0	0	0	0	1	0	0	0
North Carolina: Raleigh	0	0	0	0	0	1	0	0	0
Georgia: Atlanta	0	0	0	0	1	0	. 0	0	0
EAST SOUTH CENTRAL									
Tennessee: Memphis	0	0	0	0	1	1	0	0	0
WEST SOUTH CENTRAL									
Louisiana: New Orleans	0	1	0	1	0	0	0	0	0
ShreveportTexas:	0	0	0	0	0	1	0	0	0
Dallas Galveston San Antonio	0	0 0	0	0	0 0	2 2 1	0	0	0 0 0
MOUNTAIN					-				
Colorado: Denver	0	0	0	0	0	0	0	1	1
Utah: Salt Lake City	2	2	0	0	0	0	0	0	. 0
PACIFIC	*	1	"	"	"	"	"	"	,
Washington:	5	0	0	0	0	0	0	0	0
Spokane Tacoma	2	00	0	0	0	0	0	0	0
Oregon: Portland	1	1	.0	0	0	0	0	0	0
Same manta	0	0	1	1	0	0	0	0	0
Secramento Can Francisco	ŏ	ĭ	ō	ô	ŏ	ŏ	ŏ	ŏ	ŏ

The following table gives the rates per 100,000 population for 103 cities for the five-week period ended March 13, 1926, compared with those for a like period ended March 14, 1925. The population figures used in computing the rates are approximate estimates as of July 1, 1925, and 1926, respectively, authoritative figures for many of the cities not being available. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and more than 29,750,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, February 7 to March 13, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925 1

#### DIPHTHERIA CASE RATES

		Week ended—											
	Feb. 14, 1925	Feb. 13, 1926	Feb. 21, 1925	Feb. 20,1926	Feb. [*] 28, 1925	Feb. 27, 1928	Mar. 7, 1925	Mar. 6, 1926	Mar. 14, 1925	Mar. 13, 1926			
103 cities	² 163	³ 136	153	137	4 163	135	156	³ 124	162	6 114			
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	237 164 124 251 2173 63 154 92 171	123 140 2 132 168 135 47 116 173 140	232 162 116 203 148 74 119 157	116 132 134 202 105 57 90 218 205	4 184 177 111 289 108 47 154 148 246	102 118 140 241 73 52 116 209 216	225 166 107 273 98 58 137 83 224	7 95 8 111 123 9 235 109 47 103 73	170 213 120 195 86 37 150 102 188	78 112 3 107 214 86 10 28 103 109 148			

#### MEASLES CASE RATES

103 cities	2 285	31,717	367	1,994	4 342	2, 047	403 51,818	433	¢ 1, 693
New England. Middle Atlantic East North Central. West North Central. South Atlantic East South Central West South Central West South Central Mountain Pacific	637	2,347	695	2,709	4-569	2, 188	633 72, 457	522	1,989
	286	1,511	371	1,913	341	2, 040	426 81, 627	516	1,713
	479	32,633	637	2,899	589	3, 080	738 2, 691	695	2,132
	28	542	26	677	70	891	66 845	72	1,637
	92	3,112	104	3,276	77	3, 109	94 2, 697	138	2,267
	68	732	47	960	42	1, 235	79 1, 322	11	10 1,499
	48	13	13	9	48	9	22 17	84	39
	148	109	601	137	888	82	28 200	740	337
	28	167	61	202	58	162	102 11 282	105	326

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1925, and 1926, respectively.

2 Wilmington, Del., not included.

3 Madison, Wis., not included.

4 Hartford, Conn., not included.

5 Barre, Vt., Newark, N. J., Kansas City, Mo., and Tacoma, Wash., not included.

6 Madison, Wis., and Covington, Ky., not included.

7 Barre, Vt., not included.

8 Newark, N. J., not included.

8 Ransas City, Mo., not included.

10 Covington, Ky., not included.

11 Tacoma, Wash., not included.

12 Tacoma, Wash., not included.

Summary of weekly reports from cities, February 7 to March 13, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925—Continued

#### SCARLET FEVER CASE RATES

					-					
				•	Week en	ided-				
	Feb. 14, 1925	Feb. 13, 1926	Feb. 21, 1925	Feb. 20, 1026	Feb. 28, 1925	Feb. 27, 1926	Mar. 7, 1925	Mar. 6, 1926	Mar. 14, 1925	Mar. 13, 1926
103 cities	2 385	3 298	376	309	4 390	285	381	⁸ 290	415	6 303
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	544 406 371 695 2261 194 114 370 168	362 197 3 358 770 171 114 108 218 310	585 374 403 719 157 205 119 240 177	362 208 372 772 150 244 108 237 332	4 543 411 402 711 192 168 137 305 213	354 187 339 695 201 171 112 100 313	563 370 403 752 161 179 176 277 207	7 349 8 175 345 9 815 163 187 90 337 11 331	515 437 460 697 207 326 101 194 218	333 192 3 370 893 150 10 149 112 218 251
		SMAL	LPOX	CASE	RATE	s				
103 cities	ž 76	8 53	64	41	4 64	41	60	5 47	59	6 40
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central West South Central Mountain Pacific	187 2 92 620 132	0 1 3 23 32 81 52 112 73 461	0 2 52 123 63 488 79 83 204	0 0 33 63 51 104 142 36 194	40 3 26 117 40 536 110 55 298	0 0 18 77 66 52 133 46 245	0 1 40 111 48 599 70 46 196	7 0 8 0 23 62 100 67 194 36	0 5 37 121 56 410 70 92 235	0 0 8 19 67 49 19 72 142 18 262
	T	PHOI	D FEV	ER CA	SE RA	TES	Li-			
103 cities	2 12	3 6	10	7	4 13	5	10	§ 10	9	68
New England Middle Atlantic. East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	10 2 20 37 44 18	5 6 34 4 15 10 0 0	0 10 6 4 8 32 40 37 22	7 4 5 6 4 5 22 18 16	4 13 8 6 16 19 32 40 74 8	5 2 1 2 11 10 30 18 8	7 10 8 6 8 32 26 9 14	7 12 8 5 5 0 0 6 10 39 146 11 17	5 5 3 10 23 32 26 18 14	5 7 3 4 4 8 10 0 4 146 0
INFLUENZA DEATH RATES										
96 cities		3 34	29	50	1 34	47	30	6 52	33	* 71
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	552 58 116 55	19 15 11 4 64 62 302 127 35	17 21 17 21 52 68 145 55	2 27 11 19 137 161 298 109 96	4 30 20 23 36 46 116 140 18 25	19 39 14 23 100 135 227 100 35	17 15 25 34 50 95 135 18 25	7 12 8 71 14 9 5 47 259 132 109 11 34	34 24 31 82 31 84 102 46 15	24 105 32 35 77 197 104 146 21

² Wilmington, Del., not included.

³ Madison, Wis., not included.

⁴ Hartford, Conn., not included.

⁵ Barre, Vt., Newark, N. J., Kansas City, Mo., and Tacoma, Wash., not included.

⁶ Madison, Wis., and Covington, Ky., not included.

⁷ Barre, Vt., not included.

⁸ Newark, N. J., not included.

⁸ Kansas City, Mo., not included.

⁹ Kansas City, Mo., not included.

¹⁰ Covington, Ky., not included.

¹¹ Tacoma, Wash., not included.

Summary of weekly reports from cities, February 7 to March 13, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925—Continued

PNEUMONIA DEATH RATES

		Week ended—									
	Feb. 14, 1925	Feb. 13, 1926	Feb. 21, 1925	Feb. 20, 1926	Feb. 28, 1925	Feb. 27, 1926	Mar. 7, 1925	Mar. 6, 1926	Mar. 14, 1925	Mar. 13, 1926	
96 cities	230 230 158 133 2247 289 440 268 171	3 213 156 212 3 161 77 406 223 553 328 138	207 232 215 173 127 232 294 387 203 189	259 175 289 180 125 486 296 553 173 174	4 190 4 235 181 160 150 275 268 203 259 145	260 165 316 179 106 451 301 378 410 142	196 218 209 182 136 251 247 218 129 124	7 188 8 361 206 9 96 340 311 387 237 11 126	214 220 213 226 169 232 336 169 203 138	3 325 217 460 3 289 146 301 389 255 300 92	

Wilmington, Del., not included.
Madison, Wis, not included.
Hartford, Conn., not included.
Hartford, Cont., Newark, N. J., Kansas City, Mo, and Tacoma, Wash., not included.
Barre, Vt., not included.
Newark, N. J., not included.
Kansas City, Mo, not included.
Tacoma, Wash., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively

Group of cities	Number of cities reporting	Number of cities reporting	Aggregate of cities cases	population reporting	Aggregate population of cities reporting deaths		
	cases	deaths	1925	1928	1925	1926	
Total	103	96	29, 944, 996	30, 473, 129	29, 251, 658	29, 764, 201	
New England. Middle Atlantic East North Central West North Central. South Atlantic East South Central West South Central West South Central West South Central Mountain Pacific.	12 10 16 14 21 7 8 9	12 10 16 11 21 7 6 9 4	2, 176, 124 10, 346, 970 7, 481, 655 2, 594, 962 2, 716, 070 993, 103 1, 184, 057 563, 912 1, 888, 142	2, 206, 124 10, 476, 970 7, 655, 436 2, 634, 662 2, 776, 070 1, 004, 953 1, 212, 057 572, 773 1, 934, 084	2, 176, 124 10, 346, 970 7, 481, 656 2, 461, 380 2, 716, 070 993, 103 1, 078, 198 563, 912 1, 434, 245	2, 206, 124 10, 476, 970 7, 655, 436 2, 490, 036 2, 776, 070 1, 004, 953 1, 103, 695 572, 773 1, 469, 144	

### FOREIGN AND INSULAR

#### THE FAR EAST

Report for week ended February 27, 1926.—The following report for the week ended February 27, 1926, was transmitted by the Far Eastern Bureau of the health section of the League of Nations' Secretariat, located at Singapore, to the headquarters at Geneva:

	Pla	gue	Cho	lera		all- ox		Plague		Cholera		Small,	
Port	Cases	Deaths	Cases	Deaths	Cases	Deaths	Port		Deaths	Cases	Deaths	Cases	Deaths
Calcutta. Bombay. Madras. Rangoon Karachi. Colombo. Basra. Singapore. Port Swettenham Penang. Batavia. Surabaya. Samarang. Chembon. Belawan Deli Palembang. Padang (Sumatra). Sabang (Rhio). Makassar Menada. Banjermasin Balik-papan. Pontianak (Borneo). Sandakan (North Borneo). Kuching (Sarawak). Timor Dilly. Manila. Zamboanga. Bangkok Saigon and Cholon Haiphong. Tourane. Hongkong. Shanghai. Amoy. Nagasaki. Nogasaki. Nogasaki. Noji. Kobe.	200000023000000000000000000000000000000	011011210000000000000000000000000000000	000000000000000000000000000000000000000	302000000000000000000000000000000000000	30 25 9 19 30 66 10 00 00 00 00 00 00 00 00 00 00 00 00	19 16 12 00 16 00 00 00 00 00 00 00 00 00 00 00 00 00	Osaka Niigata Niigata Tsuruga Hakodate Keelung Fusan Chemulpo Dairen Adelaide Brisbane Fremantie Melbourne Sydney Rockhampton Townsville Port Darwin Broome Port Moresby Auckland Wellington Christchurch Invercargill Noumea Honolulu Suez Honolulu Suez Marshambas (Kenya) Zanzibar Massowah Djibuti Berbera Mozambique Durban East London Port Elizabeth Cape Town Port Louis (Mauritius) Seychelies	000000000000000000000000000000000000000		000000000000000000000000000000000000000		000000040000000000000000000000000000000	000000000000000000000000000000000000000

#### CANADA

Communicable diseases—Week ended March 13, 1926.—The following table shows the number of cases of certain communicable diseases in seven Provinces of Canada during the week ended March 13, 1926. The information was supplied by the Canadian Ministry of Health.

•	Nova Scotia	New Bruns- wick	Que- bec	On- tario	Mani- toba	Sas- katch- ewan	Al- berta	Total
Influenza. Lethargic encephalitis. Smallpox. Typhoid fever.	34	<u>1</u>	8	1 6 10	2	3	1 4	36 1 10 23

#### **CUBA**

Communicable diseases—Habana—February, 1926.—During February, 1926, communicable diseases were reported at Habana, Cuba, as follows:

Disease	New cases	Deaths	Re- main- ing under treat- ment Feb. 28, 1926	Disease	New cases	Deaths	Re- main- ing under treat- ment Feb. 28, 1926
Chicken pox Diphtheria Leprosy Malaria ¹	46 17 32	1 1	17 4 7 11	Messles Paratyphoid fever Scarlet fever Typhoid fever ¹	107 1 30 40	1 3	36 1 19 34

¹ Many of these cases from the interior.

#### **ECUADOR**

Plague—Guayaquil—February, 1926.—During the month of February, 1926, 16 cases of plague with 7 deaths were reported at Guayaquil, Ecuador.

Plague-infected rats.—During the same period, out of 19,586 rats examined, 172 rats were found plague infected.

#### GREAT BRITAIN (SCOTLAND)

Measles—Glasgow—January and February, 1926.—An outbreak of measles has been reported at Glasgow, Scotland, as follows: Month of January, 1926, 4,519 cases with 65 deaths; February, 1926, number of cases 5,986. The type of the disease was mild.

Other diseases.—Among other diseases reported were 15 fatal cases of influenza and 25 of whooping cough in January, 1926; 218 cases of diphtheria and 361 cases of scarlet fever in February.

Population, estimated, 1,034,500.

#### MADAGASCAR

Plague—December, 1925—January 1-15, 1926.—During the month of December, 1925, 400 cases of plague with 373 deaths were reported in the island of Madagascar, and from January 1 to 15, 1926, 161 cases with 151 deaths. The types of the disease were bubonic, pneumonic, and septicemic. For distribution of occurrence according to locality see page 641.

#### **MEXICO**

Malaria—Typhoid fever—Los Mochis.—Malaria and typhoid fever were reported continuously present at Los Mochis, Mexico, from September 27, 1925, to February 20, 1926.

#### VIRGIN ISLANDS

Communicable diseases—February, 1926.—During the month of February, 1926, communicable diseases were notified in the Virgin Islands of the United States as follows:

Disease and island	Cases	Remarks			
St. Thomas and St. John:  Chancrold Dengue Gonorrhea Influenza Malaria. Syphilis Tetamus Tuberculosis St. Croix: Dysentery Gonococcus infection Syphilis.	52411213	St. John, 1. St. John, 1. St. John, 1. Malignant tertian. Imported. Larynx, 1; secondary, 1.  Entamebic. Secondary.			

#### YUGOSLAVIA

Communicable diseases—January 1-February 21, 1926.—During the period from January 1 to February 21, 1926, communicable diseases were reported in Yugoslavia as follows:

Diseases	Cases	Deaths	Diseases	Cases	Denths
Anthrax Cerebrospinal meningitis Diphtheria and croup Dysentery Gianders Leprosy Lethargic encephalitis Measles	35 18 293 41 3 2 5 2,032	5 11 48 1 3 1 4 28	Rabies	1 1,004 13 385 81 403	1 190 10 56 12 17

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

#### Reports Received During Week Ended April 2, 1926 1

#### CHOLERA

Place	Date	Cases	Deaths	Remarks
Chosen	November, 1925	6	5	***
India: Calcutta	Jan. 31-Feb. 6	41	34	
Indo-China: French Settlements Japan	December, 1925 Nov. 29-Dec. 26	880 31	712	
Siam: Bangkok	Jan. 31-Feb. 6	22	10	
	PLA	GUE		
Ecuador: Guayaquil	February	16	7	Rats taken: 19,586; plague-infected rats found, 172.
Iraq: Bagdad Java:	Jan. 17-23	7	3	Tuo today 1721
Java: Batavia Cheribon	Jan. 30-Feb. 5 Jan. 17-23	78 3	76 3	
Madagascar				Dec. 1-15, 1925: Cases, 194; deaths, 179. Dec. 16-31, 1925: Cases, 206;
Do				deaths, 194. Total: Cases, 400; deaths, 373. Jan. 1-15, 1926: Cases, 161;
D0				deaths, 151. Bubonic, pneu- monic, septicemic.
Province— Ambositra	Dec 16-31	9	7	
Itasy	ldo	21	21	
Moramanga Tananarive Province—	do	24 152	23 143	
Ambositra	Jan. 1-15	2	2	
Itasy Moramanga	do	29 15	29 15	
Tananarive— Tananarive Town— Other localities———	do	4 111	4 100	
Nigeria	November	63	48	
Russia Siam	October Nov. 1-Dec. 26	9 12	10	
P	SMAI	LPOX		
Algeria:				
Algiers	Feb. 1-10	15		
Aden Brazil:	Feb. 14-20	3		
Manaos	Dec. 1-31		12 6	
DoRio de Janeiro	Dec. 1-31 Jan. 31-Feb. 20 Jan. 17-Feb. 6	94	71	
Alberta	Mar. 14-20	1		Mar. 7-13, 1925; Cases, 1.
Ontario.				Mar. 7-13, 1926: Cases, 6,
Kingston Saskatchewan	Mar. 8-14	î		Mar. 7-13, 1926: Cases, 3.
ReginaChile:	Mar. 7-13	2		
Do	<b>i</b>		8 4	
Foochow Hongkong Manchuria—	Jan. 31-Feb. 6 dodo	2	3	Present.
Dairen	Jan. 18-31 Feb. 12-18	13	5	I

¹ From medical officers of the Public Health Service, American consuls, and other sources.

#### Reports Received During Week Ended April 2, 1926-Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
China—Continued. South Manchuria— Changchun. Kungchuling Shanghai	Feb. 14-20doFeb. 7-20	3 1 7	17	Railway line. Do. Cases, foreign residents in settlement and vicinity; deaths, Chinese residents in settlement.
FranceGold CoastGold Britain	December, 1925 November-De- cember	77 23	ī	
England and Wales London	Feb. 21-Mar. 6 Jan. 31-Feb. 6	491	i	
Newcastle-On-Tyne Sheffield	Feb. 21-27 Feb. 28-Mar. 6	3		
Greece: Athens Do Salomki	Dec. 1-31 Feb. 1-28 Feb. 16-22	1 27	2 1	
India: Bombay Calcutta Karachi	Jan. 31-Feb. 13 Jan. 31-Feb. 6 Feb. 7-13	30 43 9	16 22 3	
Indo-China (French): Saigon	Jan. 18-Feb. 7	4		Including 100 square kilometers of surrounding country.
ItalyCatania	Dec. 6-Jan. 2 Jan. 3-16 Feb. 22-28	14 12	1	or surrounding country.
Mexico: Torreon Nigeria Portugal:	Feb. 1-28 November	136	21	
Lisbon Rumania Russia	Jan. 17-Feb. 13 August-October July-October	47 3 1, 563		Later than previously published reports.
Siam: Bangkok Spain:	Jan. 31-Feb. 6	Б	2	1 dpores.
Madrid Valencia Switzerland Trinidad	Jan. 1-31 Feb. 28-Mar. 5 Dec. 27-Jan. 30 Fab. 6-20	37	1	Type, alastrim.

#### TYPHUS FEVER

Algeria:				
Algiers				Jan. 1-31, 1926; Cases, 1.
Bulgaria	December	21	1	,
China:				
Antung	Feb. 1-21	5	1	
Czechoslovakia	December	52		
	Decommenda	- 02	-	December 1005; Cones 10
Greece	Feb. 1-28		3	December, 1925: Cases, 12.
Athens.		19	3	
Saloniki	Feb. 2-8	1 .1		
Hungary	November-De-	13	*******	
	cember.	l	1	
Mexico:		1	1	,
Mexico City	Feb. 28-Mar. 6	13		Including municipalities in Fed-
				eral District.
Morocco	December	54	•	Car mounts.
Norway	do	l i		
Toleway		103		
Poland	Dec. 20-Jan. 2		_6	
Do	Jan. 3-16.	190	14	
Rumania	September-Octo-	74	7	
	ber.	ł	į .	
Russia	July-October	6,035	l	Later than previously published
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		reports.
Turkey:	ł	l .	ł	
Constantinople	Feb. 9-22	5	3	From unofficial sources. (Press.)
Union of South Africa:				Trom amountains sources. (Tress.)
	Ton 21 Feb C	1	1	Outhmake
Cape Colony	Jan. 31-Feb. 6			Outbreaks.
Yugoslavia				Jan. 1-Feb. 21, 1926: Cases, 81;
	<b>f</b>	ł	l	deaths, 12.

¹ Population, foreign (estimated), 30,070: Chinese (estimated), 799,172.

#### Reports Received During Week Ended April 2, 1926-Continued YELLOW FEVER

-				
Gold Coast	November-De- cember.	2	2	

#### Reports Received from December 26, 1925, to March 26, 1926 1 CHOLERA

	CHO	LEKA		
Place	Date	Cases	Deaths	Remarks
Place  Chosen India Calcutta Do Do Do Do Do Do Nadras Do Rangoon Do Indo-China Province Annam Cochin China Saugon Tonkin Iapan Do Philippine Islands Manila Do Province Bataan Do Laguna Nueva Reija Pampanga Do Rizal Do Ro Romblon Russia Do Ro Rossia Do Rossia Do Ro Saugon Tonkin Saugon Tonkin Iapan Do Philippine Islands Do Province Bataan Do Ro Bulacan Do Do Rosson Saugon Ruseva Reija Pampanga Do Do Siam Do Ro Romblon Russia Do O Rossol: Siam Bangkok Do O O O O O O O O O O O O O O O O O O	Date  October, 1925	Cases  6  101  34 174 75 4 1  2 2 409 82 15  29 10 92 200 5 18 6 11 113 22 7 7 4 108 27 9 146 9	Deaths  80 54 41 299 70 46 4 1  2 3 2 25 1 64 88 5 14 1 95 24 21 11 12 68 149 102	Remarks  Oct. 18, 1925, to Jan. 2, 1926; Cases, 21, 316; deaths, 12,371. Jan. 3-16, 1926; Cases, 4,680; deaths, 2,625.  September, 1925; Cases, 9; deaths, 5. September, 1924; Cases, 7; deaths, 4. (European cases, 2.) Including 100 square kilometers of surrounding country.
Do On vessel:	Dec. 27-Jan. 30	9		

Argentina	**********			Jan. 21-30, 1926: 6 cases, occur-
Buenos Aires	Jan 24-30	1		ring in interior provinces of Salta and Santa Fe.
Brazil:			1	
Bahia	Nov. 8-Dec. 27	3	1	
Do	Dec. 27-Jan. 30	4	2	
Santos	Dec. 8-21		2	
British East Africa:		1	1	
Kenya—		I	ì	
Kısumu	Nov. 22-Dec. 5	1	2	
Uganda Protectorate	September-No- vember.	339	308	
Canary Islands:		Ĭ	1	
La Laguna	Dec. 24	3	2	
Las Palmas	do	l i		1
Do	Jan. 7	ī	1	
Santa Cruz de Teneriffe	Dec. 18-27	3		
Do	Dec. 28-Feb. 1	3		

¹ From medical officers of the Public Health Service, American consuls, and other sources.

### Reports Received from December 26, 1925, to March 26, 1926—Continued

#### PLAGUE-Continued

Place	Date	Cases	Deaths	Remarks
Celebes:				
Makassar Ceylon:	Dec. 29-Jan. 26	7	7	Netherlands East Indies.
Colombo	Nov. 15-Dec. 5	3 2	3 2	1 plague rodent
Do.	Dec. 27-Jan. 16 Jan. 24-30			Do.
China: Nanking	Nov. 15-Jan. 23	,		Prevalent.
Ecuador.				2101401128
Eloy Alfaro	Jan. 1-15 Nov. 1-Dec. 31	31	12	
Guayaquil Do	Jan. 1-31	34	14	Rats taken, Nov. 1-Dec. 31, 1925, 49,370; rats found infected, 281.
Recreo (country estate)	do	1		Rats taken, Jan. 1-31, 1926, 24,672; rats found infected, 234.
Egypt Beni Suef	Nov. 18	ī	i	Jan. 1-Dec. 9, 1925; Cases, 138. Corresponding period, 1924;
Fayoum Province	Dec. 3-9	ī	ī	Cases, 365.
Greece:	Nov. 1-30	18	4	Including Piræus.
Do Herakleion	Jan. 1-31	14 1	3	On island of Crete.
Patras	Feb. 4	4	1	On island of Crete.
Hawaii Territory:				Tom 20 1000: Plague imfected not
Paguilo				Jan. 29, 1926: Plague-infected rat found in vicinity. Oct. 18, 1925, to Jan. 2, 1926: Cases, 15,135; deaths, 10,677. Jan. 3-16, 1926: Cases, 4,680; deaths, 2,625.
India	Dec 6 10	i	i	Oct. 18, 1925, to Jan. 2, 1926:
Bombay Do	Dec. 6-12 Jan. 3-9	2	2	Jan. 3-16, 1926; Cases, 4,680;
Calcutta		1	1	deaths, 2,625.
Karachi Madras	Nov. 1-Dec. 19 Oct. 25-Nov. 7 Nov. 15-21 Dec. 20-26	75	3 41	
Do	Nov. 15-21	35	22	
Do Do Do	Dec. 20-26	108	64	,
Do	Jan. 3-9	135	83 73	,
Do	Jan. 17-23	113 23	15	
Rangoon	Jan. 3-9 Jan. 17-23 Oct. 25-Dec. 26 Dec. 27-Jan. 30	17	15	İ
Indo-China				September, October, 1925: Cases, 25; deaths, 23.
Province— Cambodia Cochin China	Sept. 1-30 September-Octo- ber.	11 14	11 12	a, deaths, as.
Iraq:		_		
Bagdad	Dec. 13-Jan. 2 Jan. 10-30	7	3 5	
Java: Batavia	Oct. 24-Nov. 6	94	89	Province.
Do	Nov. 14-Jan. 1	315	297	1104111001
Do	Jan. 2-29	1 100	174	
Cheribon	Sept. 27-Oct. 17	166 96		
Do Djokjakarta	Sept. 27-Oct. 17 Nov. 15-Dec. 19 Oct. 20-Nov. 9 Dec. 7			Epidemic in 1 locality.
Kediri	Dec. 7			Do.
Pekalongan	Sept. 27-Oct. 17		42	
Do	Oct. 20		131	Do,
Rembang Surabaya Do Tegal	Oct. 11-Dec. 26	59	59	20.
Do	Oct. 11-Dec. 26 Dec. 27-Jan. 9 Sept. 27-Oct. 17	. 16	16	
Tegal Do	Sept. 27-Oct. 17 Nov. 8-Dec. 19	6	6 29	
Madagascar				Nov. 1-30, 1925: Cases, 232;
Province— Itasy	Sept. 16-Oct. 31	20	20	deaths, 220.
Do	Sept. 16-Oct. 31 Nov. 16-30 Sept. 16-Nov. 30	. 13	13	1
Moramanga Tananarive	Sept. 16-Nov. 30dodo	25 368	25 341	
Town—	1	1	į.	
Fort Dauphin Tamatave (port)		6 3	3 2	
Do	Sept. 16-30 Oct. 16-Nov. 30	] 8	9	
Tananarive	Sept. 16-30	2	1 2	
Do.	Nov. 1-30	l H	11	1
Pamplemousses	Oct. 1-Nov 30	21	18	
Port Louis	dodo	4	î	1
Tamatave (port) Do. Tananarive Do. Mauritius Island Pamplemouses Port Louis Rivière du Remnart	do	1 2		1

#### Reports Received from December 26, 1925, to March 26, 1926-Continued

#### PLAGUE-Continued

Place	Date	Cases	Deaths	Remarks
Nigeria	August-October	496	371	
Peru: HuachoLima	Jan. 26 Jan. 1–81	15 20		Port 60 miles north of Callao. In hospital. Some cases in prov-
Mollendo	do			ince. 12 or 15 cases reported unoffi- cially.
Russia	May-June July-September	67 157		Ciairy.
Senegal	September-Octo-	45	25	
Siam	Aug. 23-Oct. 31 Nov. 15-28 Jan. 3-30	53 3 38	43 3 33	
Singapore			8	
Do Syria: Beirut	Jan. 3-9 Nov. 11-20	2 1	2	
Union of South Africa: Cape Province—		_		
Kimberley district Middleburg district	Dec. 13-19 Dec. 6-12	1 1 1		European.
Steynsburg district Orange Free State— Boshof district	Nov. 15-21 Nov. 29-Dec. 5	1 1 1	1	Native. On farm. In native.
Bothaville district On vessel:	Dec. 6-12	1	1	Native. On farm.
Steamship Cid				Jan. 29, 1926. At Buenaventura, Columbia. Rat was killed while jumping ashore from vessel. (See Public Health Reports, Feb. 26, 1928, p. 408.)
	SMAI	LPOX	·····	
Algeria:	N. O. D. O.			
Algiers Do Do Do Do Do Do Do Do Do Do Do Do Do	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-31	177 64 36		
Arabia: Aden Do	l	1 3	i	Imported.
Argentina: Rosario	1	l	1	
Australia: Queensland— Brisbane	Dec. 9-15	1		
Bahamas				In Nassau district. Stated to have been imported. Re- ported under date of Feb. 23, 1926.
Brazil: Para Rio de Janeiro.	Nov. 1-28 Dec. 6-26	25 134 65	5 72 26 29	
Do		37 14		
Uganda Protectorate	Dec. 27-Jan. 2 Sept. 1-Oct. 31	1 8		From mainland.
Northern Rhodesia Southern Rhodesia Canada	Jan. 5-11 Nov. 13-Dec. 23	3		Sept. 13-Jan. 2: In 7 Provinces 186 cases. Jan. 3-Feb. 27, 1926
Alberta Calgary British Columbia—	Jan. 10-Feb. 27 Dec. 13-19	29 1		Cases, 277. From Drumheller, vicinity of Calgary.
Vancouver	Jan. 4-10	1		Luigury.

## Reports Received from December 26, 1925, to March 26, 1926—Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Janada—Continued				
Manitoba	Jan. 3-Feb. 27	26		
Winnipeg	Dec. 13-19	2		
Do	Jan. 3-Feb. 6	9		
New Brunswick—		_		
Northumberland	Dec. 6-13	1		
Ontario.	December, 1925	32	1	
Do	Jan. 1-Feb. 13	103		
Do	Feb. 21-27 Jan. 1-Feb. 28	19 16		Township.
AdmastonAlice and Fraser	Feb. 1-28	6		Do.
King	dodo	7		Do.
Wilmot	do	6		Do.
Belleville	do	4		~
Kitchener	do	26		
North Bay	do	3		
Ottawa	Dec. 6-12	2		
Do	Jan. 3-Feb. 6	2		
Toronto	Dec. 27-Jan. 2	1		
_ Do	Jan. 3-Feb. 28	25		
Trenton	do	15		
Saskatchewan	Jan. 3-Feb. 13	39		
Do	Feb. 21-27	10		
Moose Jaw	do	2		
Regina	Jan. 24-30 Feb. 14-20	1		
Saskatoon	Feb. 14-20	1		
Ceylon:	Dec. 6-12	١.		Port case.
Colombo	Jan. 3-Feb. 6	1 5		Port case.
China:	Jan. 3-Feb. 6			
Amoy	Oct. 25-Dec. 19	1	1	
Do	Jan. 10-30			Present.
Antung	Dec. 7-20	2		2 100000
Chungking	Nov. 15-Feb. 6			Do.
Foochow	Nov. 1-Jan. 23			Do.
Hankow	Nov. 14-Dec. 26	4		
Do	Jan. 10-16	1		l .
Hongkong	Nov. 22-Dec. 26	4		1
Do	Jan. 3-30	4		
Manchuria—	l		Į.	
An-shan	Dec. 6-12	. 1		Handle Monahamian Dailwan
Do	Jan. 10-Feb. 13	. 6		South Manchurian Railway.
Changchun.	do. Oct. 19-Dec. 27. Dec. 28-Jan. 17.	11	15	Do.
Dairen Do	Doc 26 Inp. 17	73 27	6	
Changchun	Ton 21-Feb 8	4	1 0	ĺ
Fushun	Jan. 31-Feb. 6 Jan. 17-23	ī		Do.
Harbin	Jan 1-7	i		20.
Kqi-yuan	Jan. 1-7. Jan. 10-30	4		Do.
Kungchuling	Jan. 31-Feb. 6	ī		
Lio-yang.	Jan. 17-23	1 1		Do.
Mukden	Oct. 24-Nov. 15	. 1		Do.
Do	Jan. 24-Feb. 13	. 2		1)0.
Tieh-ling	do	2		
Nanking	Nov. 21-Dec. 26			Present.
Do	Nov. 21-Dec. 26 Dec. 27-Feb. 13 Oct. 25-Jan. 2			Do.
Shanghai	Oct. 25-Jan. 2	37	36	
Do	Jan. 3-Feb. 6	39	77	Cases, foreign only.
Swatow	Nov. 22-Feb. 13			Prevalent.
Tientsin	Nov. 1-Dec. 19	2		
Do Chosen:	Jan. 23-30	. 1		
Cnosen: Seishin	Jan. 1-31	. 5		1
	Jan. 1-01	. 5	2	
Egypt: Alexandria	Dec. 3-31	. 5	2	
Do	Jan. 8-14	2	1 1	
Do	Jan. 29-Feb. 11	4	l i	
Esthonia		1 2	1 1	November, 1925: Cases, 3.
France				September-October, 1925; Cas
Gold Coast	September, 1925	14	4	91.

## Reports Received from December 26, 1925, to March 26, 1926—Continued

#### SMALLPOX-Continued

1 1

Great Britain   England and Wales   Dan 27-Ian 23   27   3411   Don 27-Ian 24   27   3411   Don 27-Ian 25   27   3411   Don 27-Ian 25   27   3411   Don 27-Ian 26   3411   Don 27-Ian 27   3411   Don 27-Ian 27   3411   Don 27-Ian 27   3411   Don 27-Ian 27   3411   Don 27-Ian 27   3411   Don 27-Ian 27   3411   Don 27-Ian 27   3411   Don 27-Ian 27   3411   Don 27-Ian 27   3411   Don 27-Ian 27   3411   Don 27-Ian 27   3411   Don 27-Ian 27   3411   Don 27-Ian 27   3411   Don 27-Ian 27   3411   Don 27-Ian 27   3411   Don 27-Ian 27   3411   Don 27-Ian 27   3411   Don 27-Ian 27   3411   Don 27-Ian 27   3411   Don 27-Ian 27   3411   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 27-Ian 27   Don 2	Place	Date	Cases	Deaths	Remarks
Leeds	Great Britain:				
Leeds					Nov.15-Dec.26,1925: Cases, 790.
Newcastle-on-Tyne	Hull	Dec. 27-Jan. 23			Dec. 27-Feb. 20, 1926; Cases,
Newcastle-on-Tyne		Inn 14-Fah 6			3,411.
Do		Nov. 29-Dec. 19			
Nottingnam	Do	Dec. 27-Feb. 20			
Do.   Dec. 27-7an. 9   2   2   2   2   2   2   2   2   2	Nottingham	Nov. 22-Dec. 26	9:		
Sheffield	Do	Dec. 27-Jan. 9	2		
Doc.   Dec. 27-Feb. 6.   12   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care	Sheffield	Nov. 22-Dec. 12			
South Shields	Do	Dec. 20-26			
Athens	Do	Dec. 27-Feb. 6	12		***************************************
Athens.   Nov. 1-30.   17		red. 9			Reported present in severe form.
Do.   Jan. 1-31   23   1   1   25   1   1   25   1   25   1   25   1   25   1   25   20   20   20   20   20   20   20		Nov 1-20	17		Get. 1-31, 1925; Cases, 16.
India		Tan 1_31		1 1	
Calcutta	India	0021. 1 0122222222	20	-	Oct. 18-Dec. 26, 1925: Cases
Calcutta	Bombay	Nov. 8-Dec. 26	26	20	19,472; deaths, 4,440. Dec. 27.
Calcutta	Do	Dec. 27-Jan. 30	71	37	1925-Jan. 16, 1926; Cases.
Do.   Dec. 27-Jan. 30.   176   108   108   109   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	Calcutta	Nov. 29-Dec. 26	48	25	18,016; deaths, 7,378.
Do	Do	Dec. 27-Jan. 30		103	
Do	Karachi	Nov. 1-21			
Nangson	no	Nov. 29-Dec. 5		2	
Nangson		Dec. 13-19			
Nangson	Medroe	Ton 24-20		1 1	
Do.   Dec. 6-26	Rangoon	Oct. 25-Nov. 28	2	- 1	
Do.   Dec. 27-Jan. 16.   13   1   1   1   1   1   1   1   1	Do	Dec. 6-26	4		
Do.   Jan. 24-30   6	Do	Dec. 27-Jan. 16			
Indo-China	Do	Jan. 24-30			
Cambodia	Indo-China				September-October, 1925: Cases,
Cambodia			1	1	204; deaths, 62. September,
Cambodia		C			1924: Cases, 78; deaths, 22
Cambodia	Annam	Sept. 1-Oct. 31	90	23	September, 1924: Cases, 8;
Cochin China	Cambodia	đo	70	20	
Cochin China	Cambodia			20	Anothe T
Salgon   Dec. 21-27   2	Cochin China	đo	18	30	Sentember 1924: Casos 43
Tonkin		Dec. 21-27			deaths, 19.
Tonkin	Do	Jan. 1-17	2		Including 100 kilometers of sur-
Tonkin		ļ	1	Į	rounding country.
Bagdad	Tonkin	Dec. 2-Jan. 2	22		ł
Catania	Iraq				Sept. 6-Oct. 17, 1925: Cases, 81;
Catania	Baggad	Nov. 1-Dec. 26	19	15	deaths, 40.
Catania	Ttolv DO	Dec. 27-3811, 80	- 11	*	Ame 9-Oct 21 1005: Cocce 20
Genoa	Catania	Feb. 15-21	7		Aug. 2-000.01, 1820. Cases, 66.
Rome		Jan. 21-Feb. 10			
Jamaica	Rome	Oct. 12-25	î		
Nov. 29-Dec. 26	Jamaica				Nov. 29-Dec. 28, 1925: Cases, 95.
Nov. 29-Dec. 26		1			Dec. 27, 1925-Feb. 27, 1926: Cases,
Do.   Dec. 27-Jan. 30			1 _	l	260 Reported as alastrin.
Japan:   Nagasaki.   Feb. 15-21.   1	Kingston	Nov. 29-Dec. 26			Reported as alastrim.
Nagnsaki	Tanan: D0	Dec. 27-Jan. 30	48		рь.
Taiwan Nov. 11—Dec. 10. 3 Yokohama Dec. 14–20. 1 Java:  Batavia Oct. 24–30. 7 Buitenzorg Nov. 29—Dec. 5. 1 Cheribon Nov. 8—Dec. 12. 2 Kraksan Oct. 11—17. 11 Malang Oct. 11—17. 11 Pekalongan Oct. 4–17 4 Pekalongan Oct. 11—Dec. 26. 633 Probolingo Oct. 11—Dec. 26. 633 104 Do. Dec. 27—Jan. 16. 66 22 Toth Bantam Oct. 11—17. 1 Surabaya Oct. 11—Dec. 26. 633 104 Do. Dec. 27—Jan. 16. 66 22 Toth Bantam Oct. 11—17. 1 Latvia Nov. 1—Dec. 21. 21 3		Fob 15 91	-		
Do.   Feb. 23   7	Tajwan	Nov 11-Dec 10			1
Do.   Feb. 23   7	Vokohema	Dec 14-20			
Dava:   Batavia.   Oct. 24-30.   1     Do.   Nov. 14-Dec. 25.   7     Do.   Nov. 14-Dec. 25.   7     Do.   Nov. 29-Dec. 5.   1     Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.   Do.	Do	Feb 23			1
Do.			•		1
Do.	Batavia	Oct. 24-30	. 1		j
Cheribon	Do	Nov. 14-1)ec. 25	. 7		
Kraksaan	Buitenzorg	Nov. 29-Dec. 5	. 1		
North Bantam Oct. 4-17. 4 Pekalongan Oct. 25-31 1 Probolingo Oct. 11-17 1 Surabaya Oct. 11-17 1 Do Dec. 27-Jan. 16 66 22 South Bantam Oct. 11-17 1 Latvia Poct. 4-10 9 1 Latvia Nov. 1-Dec. 21 21 3	Cheribon	Nov. 8-Dec. 12			
North Bantam Oct. 4-17. 4 Pekalongan Oct. 25-31 1 Probolingo Oct. 11-17 1 Surabaya Oct. 11-17 1 Do Dec. 27-Jan. 16 66 22 South Bantam Oct. 11-17 1 Latvia Poct. 4-10 9 1 Latvia Nov. 1-Dec. 21 21 3		Oct. 11-17	.] 11		
Pekalongan     Oct. 25-31     1       Probolingo     Oct. 11-17     1       Surabaya     Oct. 11-Dec. 28     633     104       Do     Dec. 27-Jan. 16     66     22       South Bantam     Oct. 11-17     1       Tegal     Oct. 4-10     9     1       Latvia     Nov. 1-Dec. 21     21     3	Maiang	Oct. 11-Jan. 2			
Problingo. Oct. 11-17	Pakalangan	Oct 25-21			
Surabaya Oct. 11-Dec. 26 633 104 Dec. 27-Jan. 16 66 22 South Bantam Oct. 11-17 1 Tegal Oct. 4-10 9 1 December, 1925: Cases, 3. Malta. Nov. 1-Dec. 21 21 3		1 ()or 11-17	1 4		1
Tegal Oct. 4-10 9 1 December, 1925: Cases, 3.  Malta. Nov. 1-Dec. 21 21 3	Surabaya	Oct 11-Dec 26	622	103	1
Tegal Oct. 4-10 9 1 December, 1925: Cases, 3.  Malta. Nov. 1-Dec. 21 21 3	Do	Dec. 27-Jan. 18	gr.		
Tegal Oct. 4-10 9 1 December, 1925: Cases, 3.  Malta. Nov. 1-Dec. 21 21 3	South Bantam	Oct. 11-17	) ĭi	1	_1
Malta	Tegal	Oct. 4-10	9	i	
Malta	Latvia				December, 1925: Cases, 3.
Do Jan. 1-31, 1928: Cases, 15.	Malta	Nov. 1-Dec. 21	. 21	3	1
	no	.'	.,	-'	_ Jan. 1-31, 1928: Cases, 15.

## Reports Received from December 26, 1925, to March 26, 1926—Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
14				July-September, 1925: Deaths,
Mexico	Dec. 13-Jan. 2	4	3	1, 157.
Do	Jan. 3-30		7	-,,
Do	Feb 14-Mar. 6		7	
Durango	Dec. 1-31		1	
Do	Jan. 1-31		2	
Guadalajara	Dec. 27-Mar. 8		12	
Mexico City	Nov. 28-Dec. 5	1		Including municipalities in Fed-
				eral District.
Do	Jan. 3-Feb. 6	4		Do.
San Luis Potosi	Jan. 17-Feb. 27	·	33 1	
Tampico	Dec. 21-Jan. 2	1 6		
Do	Jan. 2-Feb. 28 Nov. 1-Dec. 31		51	
Torreon	Jan. 1-31		33	
Do Netherlands:	Jan. 1-01		00	
The Hague	Jan 30-Feb. 6	1	1	
	3an 00-rep. 0		_	August-October, 1925: Cases
Nigeria				211; deaths, 6.
Palestine:				411, 414,000,00
Hebron	Jan 26-Feb.1	2		
Tiberias	Feb. 9-15		1	
Persia:			_	
Teheran	July 23-Oct. 22		465	
Peru:			{	
Arequipa	Oct. 1-Dec. 31		2	
Poland				Nov. 1-28, 1925: Cases, 9.
Portugal:				
Lisbon	Oct. 4-31	124		
Do	Nov. 16-Dec. 27 Nov. 14-Dec. 26		60	
Do	Nov. 14-Dec. 26	187		
Do	Dec. 27-Jan. 31	40	23	
Oporto	Nov. 22-Dec. 19	2 2	3 1	
Do	Dec. 27-Feb. 13	2		May-June, 1925: Cases, 2,333.
Russia	Tarles Assessed	760		1412y-3 tile, 1525. Cases, 2,656.
Do	July-August	100		July 12-Sept. 5, 1925; Cases, 21;
Siam Bangkok	The 90 95	3		deaths, 6.
Do	Dec. 20-25 Dec. 26-Jan. 30	32	10	deaths, or
Sierra Leone:	Dec. 20-3811. 30	02	1	
Konno district	Dec. 16-31	5	I	
Spain:	200.10 01	1		
Madrid	Year 1925		18	
Malaga	Nov. 29-Dec. 5		2	
Do	Dec. 27-Jan. 2		1	
Valencia	Dec. 20-26. Dec. 27-Jan. 2. Jan. 10-Feb. 6.	1		,
Do	Dec. 27-Jan. 2	1		
Do	Jan. 10-Feb. 6	9		
Do.	Feb. 14-27	5		
Straits Settlements:	Dec 90 99 -	1	1	
Singapore Do	Dec. 20-26.4	2	1	
Switzerland.	Jan. 10-10	1 -	1 -	June 28-Nov. 21; 1925; Cases, 62
Lucerne	Oct. 1-Nov. 30	8		1 Table 20 11011 21, 2020, Cases, 02
Zurich	Dec. 27-Jan. 2			
Trinidad (West Indies):	200. 2. 002. 2	1		•
Port of Spain	Jan. 22	1		Imported.
Tunisia:	ł	į.	1	
Tunis	Nov. 21-30	2		l
Do	Dec. 11-31	10	1	
Do	Nov. 21-30 Dec. 11-31 Jan. 1-Feb. 20	6		
Union of South Africa:		l	l	
Cape Province	Jan. 17-23			Outbreaks
Orange Free State—		1	I	_
Kuruman district	Jan. 10-16 Dec. 27-Jan. 2			<b>D</b> o
Ladybrand district	Dec. 27-Jan. 2			Do.
Transvaal—	l	ł	į.	
Belfast district	Jan. 2-9			Do.
Germiston district	Jan. 2-9			Do.
Pretoria district On vessel	Dec. 6-12 Feb. 21	2		Outbreaks. In native compound.
	1 M DOTA 721	1 2	1	Mexican steamer Montezuma, at
OH AC0001	TOD: Minnesone	-		Port of Ensenada, Mexico.

# Reports Received from December 26, 1925, to March 26, 1926.—Continued TYPHUS FEVER

Place	Date	Cases	Deaths	Remarks
Algeria:				
Algiers	Nov. 1-Dec. 20	2		
Do	Feb. 1-10	8		
Argentina: Rosario	Oct. 13-Dec. 31	2		
Bulgaria	Sept. 1-Nov. 30	29	2	
Sofia	Dec. 25-31	1		
Do	Jan. 8-14	2		
Chile				Dec. 15-31, 1925: Cases, 46.
Achao.	Dec. 15-31	1		
Bulnes	do	1 24		
Chillan	do	6		
Conception Linares Los Angeles Penco	do	ĭ		
Los Angeles	do	5		
Penco	do	2		
Sen Cerios	1 00	1		
Talca	do	1 4		
Valparaiso Do	Nov 20-Ian 2	*. *	2	
China:	1101. 20 Jan. 2		~	
Antung	Nov. 29-Dec. 27	5	1	
Do	Jan. 4-10	1		
Hongkong	Dec. 27-Jan. 2	1		_
Manchuria—	The 17 Tel. 1	3		
Elarbin Ozechoslovakia	Dcc. 17-Feb. 4 October-November	94		
Pornt:	October-Movember	,01		
Alexandria	Jan. 8-14	1		
Cairo	Nov. 5-11	2	2	
Port Said	Nov. 19-25	1		
Finland				October, 1925: 1 case.
France	July-October	4		
Germany	Oct. 25-31	1		
Greece: Athens	Nov. 1-30	11	2	
Do	Jan. 1-31	19	4	
Saloniki	Dec. 29-Jan. 4	1		
Hungary				November, 1925: Cases, 3.
Ireland:			•	
Cork County— Cork	Dec. 26-Jan. 1	2		
Do	Jan. 2-8	5		
Dumanway	Nov. 14	ĭ		
Galway County	Oct. 17	ī		
La ^{+ · i} a	October-December	4		
Lit nia				September-October, 1925: Cases
Marian		l	ļ	9; deaths, 1. July-September, 1925: Deaths
Mexico	Dec. 14-19	1		90.
Aguascalientes Durango	Dec. 1-31		1	00.
Do	Jan. 1-31		1	
Guadalajara	Ther 8-98		2	
. Do	Dec. 29-Jan. 4		1	
Mexico City	Nov. 22-Dec. 26	45		Inculding municipalities in Fed
Do	Dec.27-Feb. 27	66	l	eral District. Do.
San Luis Potosı	Feb. 6-13	00	1	10.
Tampico.	Dec. 21-Jan. 10	1	i	
Torreon.	November, 1925		1	}
Vera Cruz	Feb. 12		1	,
Morocco.	August-November	39		Manage tong Comment
Norway				November, 1925: Case, 1.
Palestine: Gaza	Dec. 18	1 .	1	
Jaffa	Dec. 1-7	i		1
Nazareth	Nov. 3-9	i		
Safad	NOV. 24-30.	1		
Tel-Aviv		1		
Peru:	1		1 -	
Arequipa	October-December		. 3	1
Poland	Oct. 11-Nov. 14 Nov. 29-Dec. 19	142 144	16 12	
			1 14	ı
Rumania	1101.20 100.10.1.	1	1	July-August, 1925: Cases, 10

### Reports Received from December 26, 1925, to March 26, 1926—Continued

#### TYPHUS FEVER-Continued

Place	Date	Cases	Deaths	Remarks
Russia	***************************************			May-June, 1925: Cases, 10,680. July-September, 1925: Cases 3,851.
Turkea: ConstantinopleUnion of South Africa	Jan. 24-30	3		October, 1925: Cases, 88; death: 7 (colored). Cases, Europear 7. December, 1925: Cases, 78 deaths, 9. Colored: Cases, 73 deaths, 9.
Cape Province Do Do	Oct. 1-31 Nov. 8-Dec. 31 Jan. 3-23		5 8	Colored. Outbreaks.
Grahamstown Middleburg district Natal Durban	Jan. 24-30 Dec. 6-12 Oct. 1-Dec. 5	2		European. On farm.
Orange Free State	Nov. 29-Dec. 5 Dec. 1-31	23	1 1	Outbreaks.
Bothaville district Transvaal Do	Oct. 1-31 Dec. 1-31	1 1 18	1	Native. On farm.
Bloemhof district	Dec. 27-Jan. 2	w FEV	ER	Outbreaks. On farm.
Gold Coast	Sept. 1-Oct. 31	1	1	
Nigeria Senegal		2 3 3	2 2	

# TREASURY DEPARTMENT

# PUBLIC HEALTH REPORTS

ISSUED WEEKLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

Volume 41 :: :: Number 15

APRIL 9 - - - 1926

### = SPECIAL ARTICLES ==

Qualifications and Duties of a Public Health Nurse Reports of the Health Section of the League of Nations



WASHINGTON
GOVERNMENT PRINTING OFFICE
1928

#### UNITED STATES PUBLIC HEALTH SERVICE

Hugh S. Cumming, Surgeon General

#### DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg. Gen. B. J. LLOYD, Chief of Division

The Public Health Reports are issued weekly by the United States Public Health Service through its Division of Sanitary Reports and Statistics, pursuant to acts of Congress approved February 15, 1893, and August 14, 1912.

They contain: (1) Current information of the prevalence and geographic distribution of preventable diseases in the United States in so far as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other communicable diseases throughout the world. (2) Articles relating to the cause, prevention, or control of disease. (3) Other pertinent information regarding sanitation and the conservation of the public health.

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# PUBLIC HEALTH REPORTS

VOL. 41 APRIL 9, 1926 No. 15

#### THE PUBLIC HEALTH NURSE

By J. G. TOWNSEND, Surgeon, United States Public Health Service

With the development of modern public health programs having definite objectives there has been correspondingly created a demand, more and more insistent, for the public health nurse, properly trained as such. The average young woman who desires to enter upon the life of real service which public health nursing offers will naturally seek for information as to—

- (1) What must I do to qualify?
- (2) What is the salary and permanency of office?
- (3) What will be my duties?

These are all pertinent questions and will be discussed in turn.

#### 1. THE PREPARATION NECESSARY

For nurses who wish to enter the public health field, various types of courses are available. For example: At a prominent northern college a one-year course in "General public health nursing" is given for graduate nurses and students in schools of nursing who have completed a two-year course in a general hospital. The course includes some field work, besides basic teaching in the fundamentals of public health nursing, with emphasis upon family health through social, educational, and preventive work. A one-year course in industrial nursing may be taken, or a four-month course in field work.

It is also possible at this institution, for those who decide early on this specialty of the nursing profession, to matriculate for a five-year course. The first two years represent general college work, the third and fourth years are spent in a school for nurses, and the fifth year is spent in special preparation for public health nursing, special attention being paid to social, educational, and preventive work. This five-year course should be of special interest to women who wish to enter the nursing profession and who desire to combine training for public health nursing with courses leading to the degree of bachelor of science. It also shortens the usual nurses' course by one year.

During the summer months courses in public health nursing have been given at a few colleges, with the assistance of the United States Public Health Service. The instruction includes theoretical study

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at the university and field work under competent field supervisors. Both instruction and field work include school nursing, infant welfare nursing, rural nursing, industrial nursing, and public health instruction in communicable diseases. This course is open only to graduate nurses.

Many colleges and State universities now provide for special courses for those wishing to enter the public health nursing field, with courses of from six months to two years.

It is to be hoped that, as public health becomes more and more popularized in the minds of the people, we shall see a better standardization of initial public health instruction, not only for nurses but for physicians as well; and instead of its being possible to make selections from courses ranging from two months to five years, courses will be chosen from curricula which extend over a standard length of time. This, of course, does not apply to special post-graduate courses for public health nurses in specialized branches.

As stated in the American Journal of Public Health, January, 1926, page 32:

It was the need of standards which caused the three national organizations, namely, the American Public Health Association, the State and Provincial Health Authorities of North America, and the National Organization for Public Health Nursing, to appoint a joint committee to consider the minimum qualifications for positions of directors and supervisors of public health and, in addition, to consider the higher standards which we hope to attain in 1930.

In summary, I quote from a statement by the Committee on Education of the National Organization for Public Health Nursing:

The training a nurse gets in the schools for nurses teaches her to care for the individual during his sickness. It usually does not give any instruction or experience in the treatment of family and community problems, which constitute a large part of the responsibility of the public health nurse. Neither does it give instruction in carrying out nursing measures in homes where there is little or no equipment available.

For public health nursing a nurse needs to know a great deal about preventive medicine, sanitation, housing, the social problems which lead to and result from sickness, and the methods used in the treatment of these problems, the social and medical legislation of her State, and the machinery and officials provided for its enforcement. Above all, the nurse must learn how to teach. If public health nurses are to make good the claim that is being made for them that they are the best agents for popular education in health matters, their teaching as well as their nursing, must have a sound technique.

For all of these things, and to learn successful methods of organizing public health work, the nurse needs a course beyond that given in the training school, and the better her academic background, the greater are her opportunities.

#### 2. SALARY AND TERM OF OFFICE

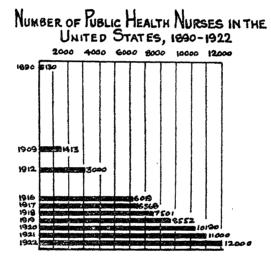
The salaries of public health nurses in the rural health organizations (county units) range from \$100 to \$185 per month, with a general average of \$140 per month.

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In industrial plants the average salary is from \$100 to \$150 monthly, and the same may be said of city health nurses and school nurses.

In rural districts where travel is necessary, the automobile is furnished, together with oil, gas, and repairs. In some States provision is also made for reimbursement for meals when absent on official duty from the town where the central office is located.

Those who are successful in the field of public health nursing can almost invariably look forward to promotion in salary and often in position. Those who show administrative ability and the "will to do" are in demand by various welfare and health agencies—local, State, and national—for the recruits who answer the call of the cause now will be depended upon to lead the way in the future as public health nursing expands and grows.



The remuneration in the public health field compares very favorably with that of the private duty nurse. It is true that in private duty salaries of \$6 and \$7 per diem seem alluring, but this duty is not constant. There are days and sometimes weeks when there is no call. I have heard it expressed that 250 days in the year of active duty is the average. This, at \$6 per day, represents a salary of \$1,500 per year, with no provision for sickness. The public health nurse in the service of the Federal, State, or local administration is nearly always assured of at least 30 days' leave each year, and her salary is constant.

The nurse who is successful in her public health endeavors need have no fear as to permanency of position. The demand now far exceeds the supply. If the unforeseen does happen and lack of funds (never lack of need), or failure of appropriations terminates her work in one field, there are many other vineyards beckening for her labors.

The accompanying chart shows roughly the growth of public health nursing since 1890; and it is safe to assert that the vast majority of the 12,000 nurses estimated in the United States in 1922 did not have the advantages of public health training which are offered to-day, nor are these 12,000 nurses sufficient in number.

In the report of the committee on municipal health department practice of the American Public Health Association¹ the statement is made that "public health nursing service, even in our large cities, is still notably inadequate in amount, the average ratio of 16.5 nurses per 100,000 population being about one-third of an ideal figure."

In the Public Health Nurse of January, 1926, it is reported that "out of a total of 3,045 counties in the United States, 1,799 counties, or 59 per cent of the total number, were without a local public health nursing service; 867 counties, or 28.5 per cent, had one or more local nursing services that were available to the entire county; and 379 counties, or 12.4 per cent, had local nursing services available for part of the county."

For the country at large the proportion is only about 12 per 100,000. We read also in the report of the committee on municipal health department practice (p. 157) that "it has been estimated by Prof. A. W. Freeman that in the future almost one-half of the total appropriation of a properly equipped health department will be spent for various forms of public health nursing." This is most significant. With so much yet to do and with a popular demand to have it done, the future of public health nursing in all its branches is bright indeed.

#### 3. DUTIES AND MODES OF PROCEDURE

Public health nursing has become so broad in its scope and is interwoven with so many activities that it is possible in an article such as this to consider only the work in the abstract. To put it broadly, the public health nurse has to do with the conservation of human life from before birth to the grave.

In modern full-time health organizations, the public health nurse is found engaged in prenatal care and advice to expectant mothers. Contact with expectant mothers is made by the nurse during routine visits to homes, or use is made of the "Motherhood correspondence course" by the central health office. This course consists of a series of letters, prepared by the section of child hygiene of the United States Public Health Service, though subject to modification by local health departments.

As originally planned, there were nine letters drafted, to be sent each month during pregnancy. These letters discussed, at the time of their importance, such items as the following: Morning

Public Health Bulletin No. 136, U. S. Public Health Service, July, 1923, p. 160.

sickness, diet, importance of urinalysis, proper clothing, dangers of overwork, and, in general, how the mother should care for herself during this important time in her life. A birth certificate is inclosed with the last letter.

Information as to the names and addresses of expectant mothers is obtained through different sources. Thus, in one State, in a report covering three months of the year, the total number of expectant mothers registered was 1,352. Information regarding these was obtained as follows:

Referred by physicians	418
Referred by public health nurses	
Referred by welfare workers	
Through publicity work	
Through the division of vital statistics	

It has been reported that in Boston prenatal nursing of the Instructive Visiting Nurse Association reduced the maternal death rate for the year 1920 from 7 in every 1,000 births to 2 in every 1,000 births.

In Cleveland, prenatal nursing is reported to have reduced the maternal death rate from 4 per 1,000 births to 1.4 per 1,000 births.²

What is being done in these two cities is being done elsewhere to help increase the human and financial dividends from the services of the public health nurse.

The real struggle for existence occurs during the preschool age (under 6 years). During this time, baby and child welfare clinics are in operation (or should be) for weighing, measuring, and examining the children brought by the parents. The health officer, or an assistant with special training in pediatrics, conducts these clinics about once a week. Here again the public health nurse is found, weighing babies, keeping charts and records, and, in general, helping materially in the successful operation of the clinic.

We next find the public health nurse in the schools busy in the organization of "little mothers' clubs." These organizations have for their purpose the teaching of little girls from 8 to 14 years something of the rudiments of infant care, so that when the time comes for them to assume the responsibilities of motherhood, they may profit from an earlier knowledge—a knowledge which, in time, will pay as high (and higher) dividends to the community as a whole, as the results obtained from the routine teaching of the Three R's.

The following is an example of the program of one of these meetings:

- 1. Calling of meeting to order by the president.
- 2. Calling of roll by secretary.
- 3. General discussion on topics of previous lesson.

²Nursing and Nursing Education in the United States. The MacMillan Co., 1923, p. 49.

- 4. Talk by nurse on subject of lesson.
- 5. Demonstration by nurse of methods used in subject matter covered by lesson.
  - 6. Motion to adjourn.

The nurse's talks at these meetings cover such objects as-

- 1. Hygiene of the home.
- 2. Fresh air.
- 3. Lighting and heating.
- 4. The baby's bed.
- 5. Sleep.
- 6. Weighing the baby.
- 7. Bathing the baby.
- 8. Clothing.
- 9. Breast feeding.
- 10. Care of bottles and nipples.
- 11. Preparation of formula.
- 12. Care of milk in the home.
- 13. Proper food for the bottle-fed baby.
- 14. The baby's food during the second year.
- 15. Bad habits.

Generally, these talks are prepared in the central office and supplied to the field nurse, thus insuring a better standardization of instruction. This feature of the public health nurse's duty is popular with the children and always demands expansion.

The schoolroom also finds the nurse assisting the health officer in school inspection. This consists in weighing and measuring children, routine examination for physical defects, and advising the parents (through the teacher) when defects are found, such as diseased tonsils and adenoids, underweight, poor vision, decayed teeth, etc. The nurse is also on the lookout for suspicious beginnings of the infectious diseases—the warning coryzas of measles and scarlet fever, the sore throat of diphtheria, and the various cruptions which may later kindle the epidemic fires. She spends busy days in the school-room assisting the health officer in vaccinations against smallpox and inoculations against typhoid fever and diphtheria (with the parents' permission), and in talking prevention as a means to a better citizenship.

The organization of the "Modern health crusade" as a means to combat tuberculosis, by inculcating health habits in plastic minds, is undertaken by the nurse, and the work is carried on by her when the crusade is launched.

In goitrous districts the nurse supervises the distribution of iodine in the form of chocolate wafers, among the school children.

So we find the public health nurse the lieutenant of the health officer, aiding him in promulgating health programs in the school rooms, thus beginning at the very foundation of citizenship.

From time to time reports are received by the health officer advising of the occurrence of a communicable disease. Personal contact is made with the family as soon as possible by a visit from the nurse, and advice is given as to personal prophylaxis and the prevention of spread. These duties are varied, embracing the prevention of tuberculosis, the filth-borne diseases, the eruptive diseases, venereal diseases (through health clinics), diphtheria, etc.

The duties enumerated above deal mainly with health departments. In connection with insurance companies, industrial plants, local tuberculosis associations, the Red Cross, and various agencies, local, State, and national, the work of the public health nurse is also definitely associated with the stupendous problem of disease prevention.

In the industrial field, more and more importance is being attached to the work of the field or public health nurse. In brief, her duties are individual instruction to employees in "safety first" and in personal hygiene and health hazards, group talks on the various subjects of prevention, home visits to determine cause of absence from work, baby welfare, ventilation, general sanitation, and proper feeding. Liberal use is made of posters, leaflets and pamphlets are distributed and, if there is a factory paper published, the nurse can tell her story through that medium.

At some places factory "cafeterias" have been established, through the nurse's influence, with a "milk service" to the undernourished, at cost, at 10 a. m. and 3 p. m.

In an article regarding the field of work of the industrial nurse,³ written by the manager of a western plant, are mentioned school examinations and steps for correction of physical defects; distribution of free milk; the "Modern health crusade"; organization of the "Little mothers clubs"; and home visits. The author concludes by saying:

The industrial nurse has become an integral part of our plant organization, and her services have proved invaluable in keeping the general health of the men up to the standard that promotes greater efficiency. * * * The work which an industrial nurse can do in a community is unlimited. Innumerable problems, great and small, constantly bob up and claim her attention. From the care of an infant to the task of assisting in the plans for a funeral, her services are in demand. Much of her work may be of a practical nature, but it is generally understood that her services are to be almost entirely instructive. I might recite many details other than those I have heretofore mentioned in which the industrial nurse would prove of great value, but I have simply related a few of the duties that are being assumed by our own nurse. The good that a nurse can do in a community is limited only by her own capabilities. It is certain that there is a vast amount of work that can be accomplished in the average industrial community if the proper steps are taken in the beginning,

What an Industrial Nurse Can Do for a Community. Public Health Nurse, vol. 13, 1921, p. 291.

and my opinion is that the first vital step should be the selection and appointment of a qualified visiting nurse.

The use of the nurse by one of the large insurance companies for home visits and public-health advice has proved to pay ample dividends, not only in preventing disabling illnesses and deaths, but also in the saving of death claims. Thus, in 1920, the amount spent by one company on visiting nursing was \$1,412,596. During that year 23,910 fewer deaths were reported than had occurred in 1911. The estimated saving in death claims was \$4,731,180. Between 1911 and 1920, among this group of policyholders, the typhoid-fever death rate was reduced 71 per cent and the tuberculosis death rate was reduced 39 per cent.

A high official of the company said:

After 11 years it may be said that the biggest public health nursing experiment in the world has been successful beyond all expectation. From the point of view of either economy or humanity it must continue.

These remarkable results followed home visits and instruction in the home care of the sick, advice to expectant mothers, infant welfare work, and, in brief, those humanizing contacts that have been previously discussed in the daily routine of the public health nurse.

When thinking in terms of public health, the idea of disease prevention is paramount; yet there is another phase which has a most important bearing on the whole problem in preparing the way and making it easier to put into effect those procedures which are recommended. I refer to the "social service" activities of the public health nurse or her case contact work. In reality, that part of the work is so intimately interwoven with the whole program that it is not commonly discussed as a separate entity.

It should be emphasized that it is essential for the nurse who is entering the field of public health to have the social service preparation needed in order better to visualize what must be done to assist families in making the adjustments necessary in preventive medicine. In her home-to-home visits she finds conditions nonmedical in nature, but which must be remedied if her nursing plans are to be carried out. Dr. Richard C. Cabot in his book on "Social Work" says:

The visiting nurses or public health nurses employed by a board of health or by private agencies for the care of contagious diseases in the home and also for the nursing of the sick poor whatever their malady, have found it more and more difficult in late years to confine their work wholly to physical aid. They have been forced to take account of the patients' economic, mental, and moral difficulties, to extend their work beyond the field of nursing proper, and thus to approach very closely to the field of the social worker. It is my own belief that the frontier separating visiting nurse and medical social worker should be robbed out as rapidly as possible, until the two groups are fused into one. The visiting nurse must study the economic and mental sides of the patients' needs,



The public health nurse



Weighing and measuring babies—Child-welfare clinic



The school nurse



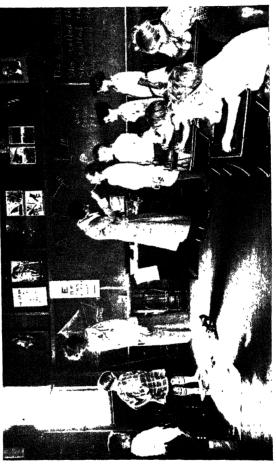
Weighing children in the schoolroom



Demonstrating toothbrush drill. (U. S. Public Health Service Mouth-Hygiene unit)



U. S. Public Health Service nurse measuring school children



Physical examination of school children by the public health nurse

and the social worker must learn something of medicine and nursing. Then the two groups will be fused into one, as indeed they are fast fusing at the present time.

So in the type of home visiting which now particularly concerns us, it is essential to make it clear from the outset that the social worker is a part of the medical organization. She is one of the means for diagnosis and treatment. All that she does from the moment when she first scrapes acquaintance with the patient is to be connected with the condition of the patient's health. She is not to pursue independent sociological or statistical inquiries. She is not to be the agent of any other nonmedical society. It is unfortunate even if her salary should be paid from any source other than the medical institution itself.

There are great advantages in this apparently formal and obvious point of connection. In the first place, the medical method of approach to close relations, to friendly relations, with a group of people is decidedly the easiest. * * *

The idea that social work necessarily concerns the poor is wholly wrong. It concerns the sick; it concerns the tuberculous. Some of the sick and some of the tuberculous are poor; others are not. The State provides dispensaries for tuberculosis, and the people pay for them out of the taxes. Hence, all the people feel that they have the right to go there and that they are not in any sense accepting charity in going there. But social work is done in all these dispensaries. Thus the connection between medical and social studies is tending to upset the old idea that social work is necessarily concerned with poverty, and that economic studies are the main part of it.

In considering our great national health problems, it is becoming more fully realized that the county is the unit in which full-time health service must be encouraged. No full-time county health unit is complete nor can it properly function without the services of one or more nurses. The average county budget provides only for a full-time health officer, a full-time inspector, a nurse, and a clerk. Therefore, the nurse in this field is, of necessity, in intimate contact with the "family life" and is the only agent upon whom the health officer, in the main, depends in assisting the family to make such social adjustments as are necessary.

The report of a rural health nurse in West Virginia who is connected with a full-time county health unit, illustrates the nature of this work:

A philanthropic citizen of one of our communities reported a family to us as being in need of both financial and nursing aid. The home, like all homes in the mining sections, was very poorly built, furniture scant, but, unlike most of these homes, it was clean. Mrs. B., who looked like a child and was only 17, informed me that her husband was on a strike, that they had no food or fuel, and that she was expecting to have her baby in one month and had been unable to make any preparations for it. Prenatal instructions were given Mrs. B. and an interview with Mr. B. was arranged for the next day.

Meanwhile we talked with officials of a church organization, and they promised to send a box of food and a load of coal that day.

The next day we returned with a layette which was donated by a group of high-school girls who made it for experience in sewing. We talked with Mr. B. (a lad of about 21), who appeared to be not too ambitious, made him feel his responsibility and the necessity for getting work at once.

One week later we visited the home and learned that Mr. B. had secured a position. Two months later Mrs. B. very proudly took us to an improvised bed made

from a clothes basket and showed us her baby boy. She was following our instructions regarding baby care and said Mr. B. was working every day and they were getting along very well.

The United States Veterans' Bureau, in its work of rehabilitation of the ex-service beneficiary, recognizes the value of this nursing contact case work. The general orders of the bureau provide that—

- 1. It will be the function of the follow-up nurses of the United States Veterans' Bureau to visit bureau beneficiaries who are not receiving treatment in hospitals and who are actually in need of follow-up nursing care. Such beneficiaries, particularly, will include those who are disabled from tuberculosis, diabetes, nephritis, or heart conditions. Beneficiaries with a neuropsychiatric disability who develop tuberculosis or other medical disability will, when in need of follow-up nursing care, be referred to the nursing section.
  - 2. The duties of follow-up nurses will, in general, consist of the following:
- (a) To assist the medical division of the regional office or suboffice in affording treatment and relief to patients selected for follow-up nursing.
- (b) To secure complete reports of home investigations of tuberculosis beneficiaries whose discharge from hospital is contemplated, under the provisons of section 202 (3) of the World War veterans' act.
  - (1) To make supplementary investigations of the sanitary environment of such tuberculous beneficiaries after they have been discharged from hospitals, and to advise such beneficiaries and their families regarding the accepted principles of sanitation and prophylaxis.
- (c) To contact, cooperate with, and, wherever possible, to secure the aid of, other nursing agencies in their respective areas, such as State, county, and city organizations, and the American Red Cross; and to utilize to the fullest possible extent the facilities available through those agencies for the adjustment of domestic and economic obstacles to the recovery of the health of Bureau beneficiaries.

This follow-up nursing program is public health work on a large scale and, in itself, is a forceful illustration of the value of special preparation for the public health nurse in social service. A few reports of some actual experiences in this work are of interest.

I. This beneficiary was referred to the bureau nurse by another claimant as being most deserving. He was an ex-service man and was in needy circumstances. A visit was made by the nurse to the home, where claimant stated he was suffering from ankylosis of the right shoulder joint, with discharging sinus.

The home, a little shack on the outskirts of the village, was very poorly ventilated and in an untidy condition. The claimant's family consisted of his wife and four small children. The wife, who was a frail woman, suffering from goiter, expected to become a mother very soon. The two older children appeared emaciated and anemic, and upon investigation it was found that the family were in destitute circumstances and that they were without funds with which to buy food at the time of my visit. The only provisions in the home were bread and flour and water which they made into a gravy and ate on the bread. The family had been living on this fare for two days prior to my visit.

The claimant's former means of support, his Government compensation, had been discontinued some months previously, because of his lack of cooperation. On interview, this claimant stated his failure to cooperate was due to his wife's physical condition and that he felt that he could not leave her with the care of the four children and no one to care for her at the time of her confinement.

A conference was held with the local Red Cross nurse and local county health nurse, with the result that one of the local charities arranged to have groceries delivered to relieve the emergency. The county health nurse looked after the mother and saw that proper clothing and dressings were supplied. The children were taken to the tuberculosis clinic and all given a thorough examination. The two older children were sent to a fresh air camp. The other two children were supplied with a daily supply of milk. The claimant's case was referred to the regional medical officer, where immediate action was taken, and the claimant was again requested to report for examination. Hospitalization for his physical condition was recommended and accepted. Claimant was given a rating of "temporary total."

My last visit showed much improvement with a much happier atmosphere in the life of the beneficiary and his family.

II. P. W., disability, nerve caught in appendectomy scar, possible post-operative adhesions, is another case we encountered. This beneficiary lives on a 40-acre general farm. Before reaching this man's home, we had to wade through about three-quarters of a mile of mud and water. The house is a two-room shack, very dirty and insanitary; chickens were in the house, roosting on the chairs. This beneficiary has a social history of divorce from his first wife and subsequent marriage with the first wife's sister. He has two children by the second wife, the younger about 3 months old. There are also two children by the first marriage, not living with the beneficiary. Late in November, this man had a lapse of memory and had wandered into the woods for four hours, when he was found by a neighbor, who took him in. Later, he had a shorter attack which came on in the home. He has never had a mental examination. He is irresponsible and does not seem to manage his work very well. He had some strawberry plants in the house which had been lying there a week and were not being taken care of. It would appear from this one interview that claimant is suffering from an inability to make readjustments socially. Whether or not his family affairs and his inability to make adjustments successfully will permanently interfere with his rehabilitation is a matter which can be determined only by repeated follow-ups. The accumulated observation of the nurse over a period of time is the only possible means of aiding this man to become rehabilitated.

During this short trip only a few of one particular group of service men for whom the bureau is responsible was investigated. That the field nurse is an essential part of the medical field service was shown repeatedly in a group of cases who, as a general thing, require such nursing service least. The field nurse should be in a position, because of her education as a public health nurse, to get into the confidences of the family, to aid and instruct them relative to nursing care of the sick. Sympathy and consideration for claimant's disability should always be shown by other members of the family. The need for this attitude toward the claimant must be made a part of the nurse's follow-up work.

- III. Pulmonary tuberculosis, advanced, active. Claimant left hospital against medical advice. Found claimant living in very small poorly ventilated and poorly lighted apartment. Wife incipient case of tuberculosis, and 2-year-old child, very delicate. Had claimant rehospitalized and referred mother and child to board of health clinic for treatment.
- IV. Pulmonary tuberculosis, active. Claimant applied for home treatment. Made survey of his home; found family of six living in three rooms; four children ranging in age from 4 months to 3 years. Oldest child cervical gland enlarged. Infant very delicate. After several visits, persuaded claimant to be hospitalized and, through the board of health, had oldest child given surgical attention and medical attention given to other members of family found needing it.

These are only miscellaneous instances of what is continually going on in family adjustments through the efforts of the public health nurse—work that embraces more than merely nursing or teaching prevention, for it breaks through the vencer of suspicion and makes the family unit a cooperating agency in economic, moral, and social reforms which make public health possible.

Everyone in the community knows the public health nurse and the work which she represents, and if she possesses the necessary tact and diplomacy it is not difficult to assist the family to adjust their affairs to meet the local situation. It is not always done in one visit. It sometimes takes many tedious trips to effect hospitalization; to assist other members of the family to find employment while the head of the household is under treatment; to instruct individuals, primitive in the first rudiments of prevention, how to practice home care of the sick; to popularize good food, good water supplies, safe milk, and fresh air, especially the "night air."

There should be a better general knowledge among qualified lay women and nurses regarding this whole matter of public health nursing—the great need, the difficulty in finding those qualified, and the returns for this form of public health endeavor in better babies, better children, better men and women, and, with it all, a

lower sickness rate and a longer life.

The life of the public health nurse is not an easy one—no life of service is—but it is one in which there is afforded a genuine satisfaction for one's daily work. The public health nursing field is relatively new, but each year finds more seed being sown and better harvests reaped. However, achievement of best results in this fruitful field is proportionate to the number who elect this specialty of the nursing profession.

(Note.—Literature and further information relative to the public health nurse and public health nursing may be obtained upon request from the Surgeon General, United States Public Health Service, Washington, D. C.)

### CURRENT WORLD PREVALENCE OF DISEASE

REVIEW OF THE MONTHLY EPIDEMIOLOGICAL REPORT ISSUED FEBRUARY 15, 1926, BY THE HEALTH SECTION OF THE LEAGUE OF NATIONS' SECRETARIAT!

English cities, Paris, and several other European cities, which showed a sudden rise in the general mortality about the middle of December, reported a decline in the number of deaths at the end of December and during January, according to the data made available in the February issue of the Monthly Epidemiological Report published by the health section of the League of Nations' Secretariat. In most European cities the seasonal increase in mortality had been slight up to the end of January, and there was no suggestion of any unusual prevalence of influenza.

From the Statistical Office, U. S. Public Health Service.

On the other hand, the mortality in United States cities rose during January, declined again for several weeks, and then turned abruptly upward in the middle of February and continued to increase for several weeks. The mortality rate for 68 large cities reached the high point of 18.4 per 1,000 in the week ended March 20, a rate similar to that which occurred in February, 1923, at the peak of the influenza epidemic of that year. There is every indication that the present increase in mortality, at least in most localities, has been associated with a marked increase in cases of influenza and grippe and of pneumonia, which have affected practically every section of the country; but the records in the present issue of the Epidemiological Report are not sufficiently recent to indicate whether or not a similar phenomenon has occurred in other countries.

Plague.—No case of plague was reported in Egypt from December 9 to the middle of February. One case occurred at Beirut and two cases in Greece in January; otherwise the Mediterranean ports were free from plague during January. Plague was reported in southeastern Russia as follows: 49 deaths in the Ural-Bukeiev Government from October 14 to December 21, and 5 cases with 4 deaths in the Stalingrad Government from November 20 to January 21. Only 6 cases were reported in the corresponding period of the preceding year.

The plague situation in India seemed fairly favorable down to the middle of December. The total number of deaths in the four weeks ended December 19 was approximately one-half the number reported in the corresponding period of the previous year. The United Provinces showed the most marked increase over the preceding four weeks, but the number of deaths was fewer than in the preceding year. Deaths in each of the Provinces are shown in the table below.

	19	25	1924		19	25	1924
Province	Oct. 25- Nov. 21	Nov.22- Dec. 19	Nov 23- Dec. 20	Province		Nov.22- Dec. 19	Nov.23- Dec. 20
North-West Frontier Punjab. Delht. United Provinces Bihar and Orissa Bengal Presidency Assam Central Provinces	0 128 0 176 11 0 0 182	0 467 0 971 146 1 0 215	186 1,704 50 1,425 204 0 9	Madras Presidency Hyderabad State Mysore Bombay Presidency Burma Other Indian States Total	81 474 393 1, 184 189 153	112 558 388 988 332 209 4,387	500 2, 243 89 701 105 480 8, 257

Deaths from plague in the Provinces of India

Plague incidence in Madagascar, seems to have reached its maximum in December, which is earlier than usual. In January there were 354 cases and 302 deaths, compared with 400 cases and 373 deaths in December. There has been a steady increase in plague in recent years in Madagascar, as shown by the following annual

totals: 125 cases in 1922; 698 in 1923; 1,661 in 1924; and 1,742 in 1925.

Cholera.—The ports in the Far East which reported cases of cholera during January and the first two weeks of February included Calcutta, Madras, Negapatam, Rangoon, Manila, and Bangkok.

"The cholera epidemic in Siam reached its maximum at the end of November, but the number of cases was still very high in December and January," says the Report. Nearly all Provinces have been infected.

Cholera cases and deaths in Siam, October 18, 1925, to January 9, 1926

Two weeks ended—	Cases	Deaths	Two weeks ended—	Cases	Deaths
Oct. 31	26	16	Dec. 12	871	536
	192	118	Dec. 26	749	517
	947	614	Jan. 9	482	323

The number of deaths from cholera in India was nearly 50 per cent higher in the four weeks ended December 19 than in the preceding four weeks. Nearly all the increase occurred in Madras Presidency, the southern districts of which were very heavily infected. Cholera incidence in Bengal and the Ganges valley was similar to that in the preceding year and had shown little change in the latest reports.

Deaths from cholera in the Provinces of India

,	. 19	25	1924		19	1921	
Province			Nov.23- Dec. 20			Nov.23- Dec. 19	Nov.23- Dec. 20
North-West Frontier Kashmir Punjab Delhi United Provinces Bihar and Orissa Bengul Presidency Assam	0 9 8 490 565 1, 698 184	0 0 0 0 694 245 1,666 1 266	0 61 1 0 21 502 1, 973	Central Provinces Madras Presidency Bombay Presidency Burma Other Indian States Total	1, 407 0 13 0	3, 166 0 56 0	25 2, 794 116 334 55 6, 697

¹ Three weeks only.

There were 336 cases of cholera reported in the Philippine Islands in the four weeks ended January 2, 1926, most of them from the Provinces of Bulacan, Rizal, Romblon, and Mindoro.

Only a few sporadic cases of cholera occurred in Japan during December.

Yellow fever.—The Gold Coast Colony reported one fatal case of yellow fever in November at Accra, and another in December.

Typhus and relapsing fever.—Typhus fever incidence continued low in practically the whole of Europe, but a slight recrudescence was observed in Poland and Russia late in the year 1925. "The type of the disease found in central and southeastern Europe is unusually

mild," states the report. "* * * during the last quarter of 1925 there was, in each instance, only one death in the 138 cases in Czechoslovakia, the 25 cases in the Kingdom of the Serbs, Croats, and Slovenes, and the 35 cases in Greece. There were 2 deaths in 35 cases in Bulgaria. In Algeria, there was also only 1 death in 27 cases reported. On the other hand, the case mortality in Egypt is much higher, though the incidence in 1925 was rather lower than for some years."

In Japan, only 31 cases of typhus were reported during 1925. The disease was more prevalent in Korea; and 225 cases with 34 deaths were reported in 1925, compared with 540 cases and 94 deaths in the preceding year.

Mexico reported approximately 30 deaths from typhus per month from April to September, 1925. A few cases occurred in the late summer in the United States in those States along the southern border; the maximum was 40 cases in the month of August.

Relapsing fever is practically nonexistent in Europe west of Russia and in the Mediterranean countries and Africa. In the Ukraine, 174 cases were reported in November, showing an increase over the 91 cases in October.

The following comment is made in the Report on relapsing fever in India:

The official report for India states that relapsing fever is spreading in the Multan district of the Punjab. This disease is endemic in many parts of India, especially in the north. In the Punjab there were 28,830 cases and 7,568 deaths in 1923. It has also been of common occurrence during recent years in the North-West Frontier Province, Bombay Presidency and part of Madras Presidency.

Smallpox.—The incidence of smallpox in England continued to increase during January, but the affected area was still limited to the northern counties. The cases in each county are given in the following table:

Small pox cases reported in England, by fortnightly periods, December 13, 1925, to February 13, 1926

County	Two weeks ended-						
County	Dec. 19	Jan. 2	Jan. 16	Jan. 30	Feb. 13		
Northumberland Durham Yorkshire: N. Riding E. Riding W. Riding. Nottingham Derby. Lancaster Elsewhere	10 205 1 18 23 27 40 0	16 205 0 13 58 20 68 0	32 283 0 10 157 27 85 0	104 357 0 15 160 21 68 1	100 360 2 4 85 13 70 7		
Total	324	381	596	727	643		

The Report states that "no case of smallpox was reported for the last quarter of 1925 in the Scandinavian countries, Germany, the Netherlands, Belgium, Czechoslovakia, and Austria. The disease is unusually quiescent in eastern and southeastern Europe."

The number of smallpox cases in Egypt rose from 80 in November to 187 in December. In Algeria, 412 cases were reported in January, compared with 440 in December; but in Tunisia, cases declined from 169 in December to 42 in January.

Smallpox is more prevalent in India than it has been since 1919 and 1920. The Report says:

For the whole of India there were 4,929 cases of smallpox and 1,151 deaths during the week ended January 9, as against 2,442 cases and 497 deaths during the corresponding week of 1925. Nearly half these cases were returned from the Provinces of Bihar and Orissa, southern Orissa being particularly severely infected; there were 959 cases and 242 deaths during the week in the district and town of Puri alone, while 926 cases with 202 deaths occurred in the neighboring districts of Cuttack, Balasore, and Sambalpur.

Enteric fever.—In nearly all European countries there was less enteric fever during the last quarter of 1925 than in the corresponding quarter of the preceding two years. The quarterly totals are given in the accompanying table.

Cases of enteric fever reported in European countries during the last quarter of 1923, 1924, and 1925

		Total in fourth quarter of-			
Country	1923	1924	1925		
England and Wales Sweden. Finland Denmark Netherlands Belgium France Italy Switzerland Germany Batitc Republics (Esthonia, Latvia, Lithuania) Cozechoslovakia Austria Hungary Kingdom of the Serbs, Croats, and Slovenes Bulgaria	920 178 529 117 422 433 2,050 10,481 106 4,350 649 5,152 1,994 5,888 2,350 1,565 1,485	969 420 955 152 317 251 1,673 9,573 100 3,870 6,808 2,214 438 3,547 3,519 5,437	710 186 335 48 257 275 1, 852 8, 884 81 2, 333 608 3, 513 2, 008 2, 236 1, 404 1, 319		

Cerebrospinal meningitis.—"No outbreak of any considerable dimension [of cerebrospinal meningitis] has been reported this winter up to the present," says the Report. The total incidence of the disease during 1925 was very similar to that in 1924, and the only serious outbreak in 1925 occurred in Nigeria in February and March.

Scarlet fever.—The incidence of scarlet fever in European countries was generally much lower in January than in October and November.

Diphtheria.—Diphtheria was less prevalent during December and January than in the corresponding months of preceding years in most European countries.

Measles. - In Poland and Hungary the maximum measles incidence was reported in November. The disease was epidemic during December and January in northern and western Europe, and it was not yet certain in some instances that the maximum had been reached.

Trachoma.—The prevalence of trachoma in 1925 for a number of countries is shown in the following table:

			•	1925		
Country	Total, 1924	1st quarter	2d quarter	3d quarter	4th quarter	Total, 1925
Germany Austria Danzig Esthonia France Poland Russia European Russia. Ukaane Transcaucasia. Siberia Kirghiz Republic. Turkestan Waterways, railways, prisons Switzerland Czechoslovakia. Saar Territory Tunis. United States (27 States) Panama Canal Zone New Zealand Turkey	49, 592 20, 758 48, 158 12, 045 3, 407 13 2, 782 3 123	487 175 9 142 8 1,016 135,433 98,522 17,993 4,474 10,627 3,033 520 2 651 4 24 24 282 0 10 207	757 255 11 123 29 1,051 184,282 140,042 17,039 11,326 10,486 581 12 1,001 0 1 1214 0 5 3	619 104 17 68 11 953 183, 232 125, 931 15, 574 16, 603 12, 216 549 1 760 0 0 0 331 0 4	914 293 11 94 6 11,616 220,887 	

Cases of trachoma reported during 1924 and 1925

### A STUDY OF DAYLIGHT ILLUMINATION

The science of daylight lighting has not received the study given to artificial lighting. This is probably due to the erroneous belief that daylight is always ample and costs nothing.

The proper lighting by daylight alone, during all kinds of weather and during all seasons, of rooms the size of schoolrooms is not a From time to time various rules have been promulsimple matter. gated for the proper construction of schoolrooms; but very little data are in print giving the results of lighting measurements, and the science has not progressed to the stage whereby the illumination can be predicted accurately for any given architectural construction.

Last two weeks missing.
 October only.
 July missing.

⁴ July only. 5 24 States.

⁶ December missing.

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Proper lighting of schools is an important problem in connection with the development of children. The percentage of children having defective vision increases with the school grades. The conservation of the vision of the school child is a matter fully as important as his mental development.

With a view to testing the architectural rules pertaining to daylighting, about 50,000 observations were made in a school building during a school year. A summary of these observations is given in Public Health Bulletin No. 159, "Studies in Natural Illumination in School Rooms: A report on the observations of daylight illumination of selected classrooms of different orientation during the period of an entire school year," by Senior Surg. Taliaferro Clark and Physicist Arthur F. Beal. In this bulletin there are also presented rules of architecture pertaining to daylighting and conclusions drawn from the observations as to the value of each rule.

### PUBLIC HEALTH SERVICE PUBLICATIONS

A List of Publications Issued During the Period November, 1925-March, 1926

Below is given a list of publications of the United States Public Health Service issued during the period November, 1925-March, 1926, inclusive.

The most important articles that appear each week in the Public Health Reports are reprinted in pamphlet form, making possible a wider and more economical distribution of articles that are of interest to public health workers and the general public.

All of the publications listed here, except those marked with an asterisk (*), are available for free distribution and, as long as the supply lasts, may be obtained by addressing the Surgeon General, United States Public Health Service, Washington, D. C. Those publications marked with an asterisk are not available for free distribution, but may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C., at the prices noted. (No remittances should be sent to the Public Health Service.)

## Reprints From the Public Health Reports

- 1049. A Demonstration at Tarboro, N. C., of a System for Sanitary Control of Milk Supplies of Towns and Small Cities, with special reference to operation of a municipal pasteurization plant. By K. E. Miller. November 6, 1925. 12 pages.
- *1050. Public Health Nursing. By J. G. Townsend. November 6, 1925. 8 pages. 5 cents.
  - 1051. Reinoculation as a Criterion of Cure of Experimental Syphilis, with Reference to Arsphenamine, Neoarsphenamine, and Sulpharsphenamine. By Carl Voegtlin and Helen A. Dyer. November 13, 1925. 9 pages.

- 1052. Water Hyacinth and the Breeding of Anopheles. By M. A. Barber and T. B. Hayne. November 20, 1925. 6 pages.
- 1053. Heredity and Culture as Factors in Body Build. By C. B. Davenport and Louise A. Nelson. November 27, 1925. 5 pages.
- 1054. Results of Schick Tests in California. By Frank L. Kelly, Ida May Stevens, and Margaret Beattie. December 4, 1925. 14 pages.
- 1055. Public Health Service Publications. A list of publications issued during the period April-October, 1925. December 4, 1925. 4 pages.
- 1056. The Notifiable Diseases. Prevalence in States, 1924. December 18, 1925. 92 pages.
- 1057. The Tenth Revision of the United States Pharmacoppeia. By George B. Roth. December 25, 1925. 10 pages.
- 1058. Cancer Mortality in the Ten Original Registration States. Trend for the period 1900-1920. By J. W. Schereschewsky. January 1, 1926. 12 pages.
- 1059. Smallpox Vaccination as Carried out at Lehigh University. By Stanley Thomas. January 8, 1926. 8 pages.
- 1060. Sickness Among Industrial Employees. Incidence and duration of disabilities from important causes lasting longer than one week among 133,000 persons in industry in 1924, and a summary of the experience for 1920-1924. January 22, 1926. 19 pages.
- 1061. Some Nutrition Experiments with Brewer's Yeast, with especial reference to its value in supplementing certain deficiencies in experimental rations. By Maurice I. Smith, and E. G. Hendrick. February 5, 1926. 7 pages.
- 1062. A further Study of Butter, Fresh Beef, and Yeast as Pellagra Preventives, with Consideration of the Relation of Factor P-P of Pellagra (and Black Tongue of Dogs) to Vitamin B. By Joseph Goldberger, G. A. Wheeler, and R. D. Lillie. February 19, 1926. 22 pages.
- 1063. Stream Pollution. I. A Review of the Work of the United States Public Health Service in Investigations of Stream Pollution. By W. H. Frost. January 15, 1926. II. The Rate of Deoxygenation of Polluted Waters. By Emery J. Theriault. February 5, 1926. III. The Rate of Atmospheric Reaeration of Sewage-Polluted Streams. By H. W. Streeter. February 12, 1926. IV. Quantative Studies of Bacterial Pollution and Natural Purification in the Ohio and Illinois Rivers. By J. K. Hoskins. February 19, 1926. 51 pages.
- 1064. Four Cases of Tularaemia (Three Fatal) with Conjunctivitis. By H. L. Freese, G. C. Lake, and Edward Francis. February 26, 1926. 4 pages.
- 1065. A Community Health Program. By Hugh S. Cumming. February 26, 1926. 10 pages.
- 1066. Division of Venereal Diseases, July 1-December 31, 1925. March 5, 1925. 2 pages.
- 1067. Rocky Mountain Spotted Fever. A study of the relationship between the presence of rickettsia-like organisms in tick smears and the infectiveness of the same ticks. By R. R. Parker and R. R. Spencer. March 12, 12, 1926. 9 pages.
- 1068. The Second International Conference on the Biological Standardization of Certain Remedies. March 19, 1926. 11 pages.
- 1069. The Relationship of Endemic Goiter to Certain Potential Foci of Infection. March 26, 1926. 15 pages.

### Supplements to the Public Health Reports

- Public Health Laws and Regulations Adopted During 1924. Compiled by Jason Waterman, LL. B., and William Fowler, LL. B. 1925. 287 pages.
- 52. The Standardization of Digitalis. A comparative study of some of the methods of assaying digitalis, with a description of an improved modification of the one-hour frog method. By Maurice I. Smith and Wm. T. McClosky. 1925. 23 pages.
- Report of Committee on Sanitary Control of the Shellfish Industry in the United States. November 6, 1925. 17 pages.

#### Public Health Bulletins

- 153. A Study of the Top Minnow Gambusia Holbrooki in its Relation to Mosquito Control. By Samuel F. Hildebrand. May, 1925. 136 pages.
- 155. The Course of Cancer Mortality in the Ten Original Registration States for the 21-Year Period, 1900-1920. By J. W. Schereschewsky. June, 1925. 118 pages.
- 156. Transactions of the Fifth Conference of Malaria Field Workers. Held at New Orleans, Louisiana, November 25 and 26, 1924. August, 1925. 142 pages.
- .161. Transactions of the Twenty-Third Annual Conference of State and Territorial Health Officers with the United States Public Health Service, held at Washington, D. C., June 1 and 2, 1925.

### Hygienic Laboratory Bulletins

- 142. Key-Catalogue of the Worms Reported for Man. By C. W. Stiles and Albert Hassall. January, 1926. 196 pages.
- 143. Studies on Brucella (Alkaligenes) Melitensis. By Alice C. Evans. August, 1925. 67 pages.

#### Venereal Disease Publications

- Venereal Disease Bulletin No. 73-B. Placard—Warning Against Venereal Diseases.
- Venereal Disease Bulletin No. 81. Venereal Disease Manual for Social and Corrective Agencies.
- Venereal Disease Information No. 5. Gonorrhea in Female Children.

# DEATHS DURING WEEK ENDED MARCH 27, 1926

Summary of information received by telegraph from industrial insurance companies for week ended March 27, 1926, and corresponding week of 1925. (From the Weekly Health Index, March 31, 1926, issued by the Bureau of the Census, Department of Commerce)

Policies in force	Week ended Mar. 27, 1926	Corresponding week 1925
	00, 190, 401	59, 188, 650
Number of death claims	16, 239	12, 662
Death claims per 1,000 policies in force, annual rate	13.3	11 9

Deaths from all causes in certain large cities of the United States during the week ended March 27, 1926, injust mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, March 31, 1926, issued by the Bureau of the Census, Department of Commerce)

		ded Mar. 1926	Annual		under 1 ear	Infant mortality
City	Total deaths	Death rate 1	rate per 1,000 cor- respond- ing week 1925	Week ended Mar. 27, 1926	Corresponding week, 1925	rate, week ended Mar. 27, 1926 ³
Total (69 cities)	10, 788	19. 4	14.8	1, 220	977	⁸ 101
Akron Albany * Atlanta White Colored Baltimore * White Colored Birmingham White Colored Birmingham White Colored Boston Briegeport Buffalo Cambridge Coamden Chicago * Cincinnati Cleveland Columbus Dallas White Colored Dayton Denver Des Moines Detroit Duluth El Paso Erie Fall Ri ver * Filint Fort Worth White Colored Grand Rapids Houston White Colored Grand Rapids Houston White Colored Jacksonville Colored Jacksonville Colored Jacksonville Colored Jacksonville Fla White Colored Jacksonville Fla White Colored Jacksonville Fla White Colored Jacksonville Fla White Colored Jacksonville Fla White Colored Jacksonville Fla White Colored Jacksonville Fla White Colored Jacksonville Fla White Colored Colored Jacksonville Fla White Colored Colored Kansas City, Kans White Colored Kansas City, Kans	45 74 94 40 54 41 41 41 12 232 232 134 41 42 42 33 44 44 41 311 121 232 232 134 44 44 311 121 232 232 124 124 12 121 232 234 121 232 234 121 232 234 121 232 234 121 232 234 121 232 234 121 232 234 121 232 234 121 232 234 121 232 234 121 232 234 121 232 232 234 121 232 234 121 232 234 121 232 234 121 232 232 234 144 244 246 246 246 246 246 246 246 246 2	(9) 24. 5 (9) 13. 2 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 4 (10. 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Louisville White. Colored Lowell Lynn Memphis White Colored	136 107 29 30 44 67 31 36	23. 5 (5) 14. 2 22. 3 20. 0	18. 0 14. 7 9. 1 17. 9	15 11 4 2 3 6 2	9 4 2 9	58 129 110 251 37 75
Milwaukee Minneapolis	130 104	13. 5 12. 7	11.0 13.8	23 12	18 12	107 67

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.

³ Data for 64 cities.

⁴ Deaths for week ended Friday, Mar. 26, 1926.

⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 38, and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended March 27, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, March 31, 1926, issued by the Bureau of the Census, Department of Commerce)—Continued

to a trace of the Darta of the Con-	Week end	led Mar.	Annual		under 1	Infant mortality
Сну	Total deaths	Death rate	rate per 1,000 cor- respond- ing week 1925	Weck ended Mar. 27, 1926	Corre- sponding week, 1925	rate, week ended Mar. 27, 1926
Nashville 4 White Colored New Bedford New Haven New Orleans White Colored New York Bronx Borough Brooklyn Borough Manhattan Borough Richmond Borough New York  White Colored Oqueans Borough Richmond Borough Newark, N. J Norfolk White Colored Oakland Oklahoma City Omaha Paterson Philadelphia Pittsburgh Portland, Oreg Providence Richmond White Colored Rochester St. Louis St. Paul Sait Lake City 4 San Antonio San Francisco Schenectady Seattle. Spongrville Sponkane Springfield, Mass Syracuse Pracoma	622 1633 74 2, 460 889 1, 203 889 1, 203 63 147 177 20 61 64 64 68 127 753 286 68 127 118 139 39 318 417 318 34 47 34 34 34 34 34 34 34 34 34 34	(5) 22. 7 18. 1 20. 5 21. 8 16. 1 21.0 0 27. 7 15. 0 23. 8 16. 9 21. 15. 0 24. 7 15. 0 25. 16. 17. 18. 0 25. 18. 18. 18. 18. 18. 19. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	15. 7  12 6 14. 3 19. 0 18. 0 18. 0 18. 0 19. 2 13. 5  8. 0  18. 7 19. 1 14. 3 18. 2 18. 1 17. 1 12. 9 18. 2 18. 1 17. 1 18. 6 11. 9 15. 2	13 8 5 5 10 10 6 6 110 12 11 11 11 11 11 11 11 11 11 11 11 11	177 14 70 75 14 12 12 1 1 7 7 7 8 29 29 24 4 4 6 12 2 2 3 3 3 19 6	174 82 111 103 100 134 85 88 62 56 59 50 104 63 52 101 106 20 75 113 77 64 83 83 24 24 83 24 76 76 76 77 114 70
Toledo Trenton Utiea Washington, D. C White Colored Waterbury Wilmington, Del Worcester Yonkers	55 49 168 96 72 30 32 84	16. 5 21. 7 25. 1 17. 6 (3) 13. 7 23. 0 15. 1	16. 3 16. 2 22. 1 13. 7	14 4 25 17 8 5 4 4 5	9 8 6 20 5 22 5 3 6	136 67 88 142 140 140 107 94 46
Youngstown	35	11.4	16. 1 12. 1	4	6	51

See footnotes 4 and 5, on p. 671.

## DEATHS DURING WEEK ENDED MARCH 20, 1926

Summary of information received by telegraph from industrial insurance companies for week ended March 20, 1926, and corresponding week of 1925. (From the Weekly Health Index, March 23, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week ended Mar. 20, 1926	Corresponding week, 1925
Policies in force		59, 070, 177
Number of death claims	15, 275	12, 743
Death claims per 1,000 policies in force, annual rate	12. 6	11. 2

Deaths from all causes in certain large cities of the United States during the week ended March 20, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, March 23, 1926, issued by the Bureau of the Census, Department of Commerce)

		ded Mar. 1926	Annual death rate per		under 1	Infant mortality rate,
City	Total deaths	Death rate ¹	1,000 corre- sponding week, 1925	Week ended Mar. 20, 1926	Corresponding week, 1925	week ended Mar. 20, 1926 ²
Total (69 cities)	10, 258	18, 4	15, 0	1, 187	1, 027	³ 100
Akron. Albany 4 Atlanta White. Colored Baltimore 4 White. Colored Birmingham White. Colored Boston. Bridgeport Buffalo. Cambridge Camden Canton Chicago 4 Cincinnati Cleveland Columbus Dallas White. Colored Dayton Denver Des Mones Detroit Dalluth	50 56 94 42 276 202 276 36 349 36 33 109 53 33 1, 036 152 274 86 82 274 87 86 82 275 87 88 89 80 80 80 80 80 80 80 80 80 80	(a) 18. 1 (b) 19. 3 (c) 23. 3 (c) 23. 3 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24. 8 (c) 24	24.3 20.2 20.8 17.7 18.2 9.6 16.2 10.3 14.3 20.6 12.1 17.1 8.6 12.1 17.1 18.0 19.0 11.8	8 4 4 13 8 8 5 5 28 19 9 9 14 5 5 9 9 32 2 4 11 1 3 8 7 7 10 18 8 2 2 5 5 7 4 113 5 5	9 1 6 6 7 7 7 7 8 8 6 1 1 9 9 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$5 84 \$2 68 68 68 196 68 186 198 196 98 64 79 67 182 117
El Paso Erie Fril River  Filnt Fort Worth White. Colored Grand Rapids Houston White Colored Indianapolis White. Colored Jacksonville, Fla White. Colored Jersey City. Kansas City, Kans White. Colored Jersey City. Kansas City, Mo Los Angeles Louisville White.	33 41 34 34 32 2 2 8 57 36 21 131 23 24 9 4 101 25 21 4 138 252 21 33 252 21 33	16. 4 17. 4 13. 6 11. 6 11. 6 11. 6 11. 6 11. 6 11. 6 11. 6 11. 6 11. 6 11. 6 11. 6 11. 6 11. 6 11. 2 11. 2 11. 2	16. 9 15. 0 6. 8 8. 6 11. 9 14. 5 16. 6 20. 4 13. 9 17. 1 18. 0	4 77 9 2 2 0 7 5 4 1 1 9 8 1 1 2 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1	1 5 8 11 4 2 2 3 13 13	133 102 149 101 101 66 68 55 55 83 98 57 99 35 21 131 131
Colored Lowell Lynn Memphis White Colored	39 39 38 65 28	(5) 18. 4 19. 2 19. 4	18. 9 12. 6 25. 1	5 11 7 6 2	9 2 8	314 205 176

¹ Annual rate per 1,000 population.
² Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.
³ Data for 64 cities.
³ Data for 64 cities.
⁴ Deaths for week ended Friday, Mar. 19, 1926.
⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended March 20, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, March 23, 1926, issued by the Bureau of the Consus, Department of Commerce)—Continued

Total deaths		Week end 27, 1	led Mar, 1925	Annual death		under 1 ear	Infant mortality
Mineapolis	City			1,000 cor- respond- ing week	ended Mar. 20,	sponding week,	Mar. 20.
Trenton         57         22.5         13.4         11         5         18           Washington, D. C.         143         15.5         15.7         9         11         5           White         104         6         6         6         6           Colored         44         (*)         3         5         3         3         5           Waterbury         28         2         5         4         4         11         5         3         11           Wilmington, Del         39         16.7         14.1         5         3         11           Workers         59         16.1         14.5         5         7         7         8           Yonkers         40         18.4         14.7         4         7         9	Mineapolis Nashville ' White. Colored New Bedford New Bedford New Orleans White. Colored New York Bronx Borough Brooklyn Borough Manhatan Borough Queens Borough Richmond Borough Newark, N. J. Norlolk White. Colored Oakland Oklahoma City Omaha Paterson Philadelphia Pittsburgh Portland, Oreg. Providence Richmond White. Colored Colored Oskland Stateson Philadelphia Pittsburgh Fortland, Oreg. Providence Richmond White. Colored St. Paul. Salt Lake City ' San Antonio San Diego. San Francisco Schenectady Seatile Spokane Springfield, Mass Syracuse Tecon White. Colored Trenton. Washington, D. C. White. Colored Trenton. Washington, Del Worcester Willington, Del Worcester Willington, Del Worcester Wainington, Del Worcester Wainington, Del	113 711 42 299 38 68 1601 1601 843 972 192 68 48 152 48 152 48 48 48 48 48 49 49 49 40 40 40 40 40 40 40 40 40 40	(5) 7 20. 6 10. 8 20. 3 20. 2 20. 6 11. 5 20. 6 20. 1 22. 1 25. 7 2 15. 6 20. 0 20. 1 25. 7 2 15. 2 20. 6 20. 6 1 25. 2 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6 20. 6	15 6 11.5 11.5 11.5 11.5 11.5 11.5 11.5	26 9 9 4 4 5 6 6 3 3 8 4 4 257 251 102 114 5 9 9 9 9 9 114 4 7 3 8 6 6 6 6 6 6 7 12 12 12 12 12 12 12 12 12 12 12 12 12	30 18 1 1 202 202 205 15 57 108 20 2 2 16 6 6 6 32 2 5 5 7 7 66 8 32 2 3 2 5 5 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	120 150 104 41 103 106 113 88 91 167 89 298 58 21 70 97 120 61 118 219 64 200 203 101 117 184 51 117 184 51 50 85 43 117 58 90 38

See footnotes 4 and 5, on p. 878.

# PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

# UNITED STATES

#### CURRENT WEEKLY STATE REPORTS

These reports are preliminary and the figures are subject to change when later returns are received by the State health officers

### Reports for Week Ended April 3, 1926

ALABAMA		ARKANSAS—continued	
	Cases		Cases
Cerebrospinal meningitis	2	Ophthalmia neonatorum	
Chicken pox	27	Pellagra	. 1
Diphtheria	8	Scarlet fever	. 9
Influenza	721	Smallpox	. 10
Malaria	2	Trachoma	. 1
Measles	177	Tuberculosis	. 10
Mumps	87	Typhoid fever	. 2
Pellagra	15	Whooping cough	. 29
Pneumonia	149	CALIFORNIA	
Scarlet fever	11	CALIFORNIA	
Smallpox	32	Cerebrospinal meningitis:	
Tuberculosis	17	Fresno	
Typhoid fever	5	Sacramento	
Typhus fever	1	San Francisco	. 1
Whooping eough	60	Chicken pox	273
ARIZONA		Diphtheria.	
		Influenza	. 28
Chicken pox	4	Lethargic encephalitis:	
Diphtherfa	8	Fresno County	. 1
Influenza	10	San Francisco	. 1
Measles	2	Measles	109
Mumps	6	Mumps	385
Pneumonia	4	Poliomyelitis-Berkeley	. 1
Scarlet fever	12	Scarlet fever	141
Smallpox	2	Smallpox:	
Trachoma	14	Los Angeles	. 93
Tuberculosis	7	Oakland	. 19
Typhoid fever	1	Scattering	
Whooping cough	3	Typhoid fever	
ARKANSAS		Whooping cough	
	32	COLORADO	
Chicken pox		Chicken pox	. 57
Diphtheria		Diphtheria.	
Hookworm discase	_	German measles.	
Influenza			
Malaria	60	Impetigo contagiosa.	
Measles		Influenza	
Mamps	14	Measles	. 81

COLORADO—continued	ا ا	GEORGIA—continued	Cases
	Cases		Cases 112
Mumps	4	Pneumonia	112
Pneumonia	3	Scarlet fever	
Scarlet fever	43	Septic sore throat	
Smallpox	1 28	Smallpox Tetanus	-
Tuberculosis	20	Tuberculosis	
Typhoid fever	2		
Vincent's angina		Typhoid fever Whooping cough	
Whooping cough	140	who bring conguitation	
CONNECTICUT		IDAHO	
		Cerebrospinal meningitis:	
Cerebrospinal meningitis		Arco.	1
Chicken pox		Burley	
Conjunctivitis (infectious)		Huston	
Diphtheria		Chicken pox	
German measles		Diphtheria	
Influenza		Measles	
Lethargic encephalitis		Mumps.	
Measles Mumps		Scarlet fever	
Pneumonia (broncho)		Smalipox:	
Pneumonia (lobar)		Emmett	. 1
Scarlet fever		Scattering	
Tetanus.		Typhoid fever	
Trichinosis.		Whooping cough	. 1
Tuberculosis (all forms)			
Typhoid fever		ILLINOIS	
Whooping cough		Cerebrospinal meningitis:	
		Cook County	. :
DELAWARE		Morgan County	. :
Chicken pox	. 4	Diphtheria	
Influenza		Influenza	
Measles		Lethargic encephalitis-Tazewell County	
Pneumonia		Measles	
Scarlet fever	. 15	Pneumonia	. 75
Tuberculosis	. 1	Poliomyelitis:	
Typhoid fever	. 1	Cook County Macon County	
Whooping cough	. 2	Scarlet fever	
		Smallpox	
FLORIDA		Tuberculosis	
Chicken pox		Typhoid fever	
Diphtheria	_ 21	Whooping cough.	
German measles			
Influenza		INDIANA	
Malaria		Cerebrospinal meningitis	. :
Measles		Chicken pox	
Mumps		Diphtheria	. 2
Pneumonia		Influenza	. 25
Poliomyelitis		Measles	. 90
Scarlet fever		Mumps	. (
Smallpox Tuberculosis		Pneumonia	
Typhoid fever		Pollomyelitis	
Whooping cough		Scarlet fever	
11 MVP1M5 VVM5M	- 41	Smallpox	
GEORGIA		Tuberculosis	. 5
Carchycopinal manipoitic	,	Typhoid fever	
Cerebrospinal meningitis		Whooping cough	. 5
Chicken pox		IOWA	
Hookworm disease		1	-
Influenza.		Chicken pox	
Malaria.		Diphtheria German measles	
Measles		Influenza.	
Mumps		Measles	
Paratyphoid fever		Mumps	
Pellagra	10	Pneumonie	. 0.

10WA—continued	<b>G</b>	MASSACHUSETTS	<b>C</b>
	Cases	Claushusemine)	Cases
Searlet fever	44	Cerebrospinal meningitis	7
Smallpox	52	Chicken pox	87
Tuberculosis	1	Conjunctivitis (suppurative)	5
Whooping cough.	17	Diphtheria	52
Kansas		German measles	235
		Influenza	350
Cerebrospinal meningitis—Montezuma	1	Lethargic encephalitis	1
Chicken pox	57	Measles.	946
Diphtheria	9	Mumps	120
German measles	10	Ophthalmia neonatorum	49
Influenza	33	Pneumonia (lobar)	316
Measles	467	Poliomyelitis	2
Mumps	20	Scarlet fever	259
Pneumonia	72	Septic sore throat	3
Poliomyelitis-Mildred	1	Tuberculosis (pulmonary)	73
Scarlet fever	64	Tuberculosis (other forms)	56
Smallpor	7	Typhoid fever	2
Tuberculosis.	32	Whooping cough	344
Typhoid fever	1		
Whooping cough	107	MICHIGAN	
LOUISIANA		Diphtheria	91
		Measles	1,416
Diphtheria	7	Pneumonia	379
Influenza	84	Scarlet fever	402
Malaria	5	Smallpox	6
Pneumonia	39	Tuberculosis	306
Scarlet fever	8	Typhoid fever	5
Smallpox	19	Whooping cough	237
Tuberculosis	30		
Typhoid fever	6	MINNESOTA	
MAINE		Chieken pox	77
		Diphtheria	28
Chicken pox	25	Influenza	3
Diphtheria	4	Lethargic encephalitis	1
German measles	41	Measles	330
Influenza	248		
	0.40	rneumonia	2
Measles	343	Pneumonia	312
Mumps	55	Scarlct fever	312
Mumps Pneumonia	55 39	Scarlet feverSmallpox	
MumpsPneumonia	55 39 22	Scarlet fever Smallpox Tuberculosis	312 3 107
Mumps	55 39 22 5	Scarlct fever	312 3
Mumps Pneumonla Scarlet fever Septic sore throat Tuberculcsis	55 39 22 5 4	Scarlet fever Smallpox Tuberculosis	312 3 107 1
Mumps	55 39 22 5 4	Scarlct fever	312 3 107 1
Mumps	55 39 22 5 4 1	Scarict fever Smallpox Tuberculosis Typhoid fever Whooping cough MISSISSIPPI	312 3 107 1 47
Mumps	55 39 22 5 4	Scarict fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI Diphtheria	312 3 107 1 47
Mumps Pneumonia Scarlet fever Septae sore throat Tuberculesis Typhoid fever Vincent's angina Whooping cough	55 39 22 5 4 1	Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI Diphtheria Influenza.	312 3 107 1 47 11 716
Mumps Pneumonia Scarlet fever Septic sore throat Tuberculesis Typhoid fever Vincent's angina Whooping cough	55 39 22 5 4 1 3 28	Scarict fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI Diphtheria Influenza Scarlet fever	312 3 107 1 47 21 716 3
Mumps. Pneumonia. Scarlet fever. Septae sore throat. Tuberculesis. Typhoid fever. Vincent's angina. Whooping cough. MARYLAND I	55 39 22 5 4 1 3 28	Scarlet fever Smallpox. Tuberculosis. Typhoid fever. Whooping cough  MISSISSIPPI Diphtheria. Influenza. Scarlet fever. Smallpox.	312 3 107 1 47 11 716 3 12
Mumps. Pneumonia. Scarlet fever. Septae sore throat. Tuberculesis. Typhoid fever. Vincent's angina. Whooping cough.  MARYLAND 1  Cercbrospinal meningitis. Chicken pox.	55 39 22 5 4 1 3 28	Scarict fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI Diphtheria Influenza Scarlet fever	312 3 107 1 47 11 716 3
Mumps Pneumonia Bearlet fever Septie sore throat Tuberculcsis Typhoid fever Vincent's angina Whooping cough  MARYLAND 1  Cerebrospinal meningitis Ghicken pox Diphtheria	55 39 22 5 4 1 3 28	Scarlet fever Smallpox. Tuberculosis. Typhoid fever. Whooping cough  MISSISSIPPI Diphtheria. Influenza. Scarlet fever. Smallpox.	312 3 107 1 47 11 716 3 12
Mumps Pneumonia Scarlet fever Septae sore throat Tuberculceis Typhoid fever Vincent's angina Whooping cough  MARYLAND 1  Cerchrospinal meningitis Chicken pox Diphtheria German measles	55 39 22 5 4 1 3 28	Scarict fever Smallpox. Tuberculosis. Typhoid fever. Whooping cough  MISSISSIPPI Diphtheria Influenza. Scarlet fever. Smallpox. Typhoid fever.  MISSOURI	312 3 107 1 47 47 11 716 3 12 3
Mumps Pneumonia Scarlet fever Septae sore throat Tuberculesis Typhoid fever Vincent's angina Whooping cough  MARYLAND 1  Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza	55 39 22 5 4 1 3 28 · 1 90 22 3 149	Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI Diphtheria Influenza Scarlet fever Smallpox Typhoid fever  MISSOURI  Cerebrospinal meaningitis	312 3 107 1 47 21 716 3 12 3
Mumps. Pneumonla Scarlet fever Septae sore throat Tuberculesis Typhoid fever Vincent's angina Whooping cough MARYLAND 1  Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargicencephalitis	55 39 22 5 4 1 3 28 1 90 22 3 149 2	Scarict fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI  Diphtheria Influenza Scarlet fever Smallpox Typhoid fever  MISSOURI  Cerebrospinal meningitis Chicken pox	312 3 107 1 47 11 716 3 12 3
Mumps Pneumonia Scarlet fever Septie sore throat Tuberculcsis Typhoid fever Vincent's angina Whooping cough  MARYLAND 1  Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles	55 39 22 5 4 1 3 28 . 1 90 22 3 149 2 818	Scarlet fever Smallpox. Tuberculosis Typhoid fever. Whooping cough  MISSISSIPPI  Diplitheria Influenza Scarlet fever. Smallpox Typhoid fever.  MISSOURI  Cerebrospinal meningitis Chieken pox Diphtberia	312 3 107 1 47 11 47 716 3 12 3 12 52 69
Mumps Pneumonia Scarlet fever Septae sore throat Tuberculesis Typhoki fever Vincent's angina Whooping cough  MARYLAND 1  Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Mensles Mumps	55 39 22 5 4 1 3 28 . 1 90 22 3 149 2 818 178	Scarlet fever Smallpox. Tuberculosis. Typhoid fever. Whooping cough  MISSISSIPPI Diphtheria. Influenza. Scarlet fever. Smallpox. Typhoid fever.  MISSOURI  Cerchrospinal meningitis Chicken pox. Diphtheria. Influenza.	312 3 107 1 47 216 3 12 3 12 8 2 52 69 16
Mumps Pneumonia Scarlet fever Septac sore throat Tuberculesis Typhoid fever Vincent's angina Whooping cough  MARYLAND 1  Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Mensles Mumps Pneumonia (broucho)	55 39 22 5 4 1 3 28 1 90 22 3 149 28 818 178	Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI Diphtheria Influenza Scarlet fever Smallpox Typhoid fever  MISSOURI  Cerchrospinal meningitis Chicken pox Diphtheria Influenza Measles	312 3 107 1 47 216 3 12 3 12 52 69 16 867
Mumps. Pneumonia. Scarlet fever. Septae sore throat. Tuberculesis. Typhoid fever. Vincent's angina. Whooping cough.  MARYLAND 1  Cerchrospinal meningitis. Chicken pox. Diphtheria. German measles. Influenza. Lethargic encephalitis. Measles. Mumps. Pneumonia (broneho). Pneumonia (bobar).	55 39 22 5 4 1 3 28 1 90 22 3 149 2 818 81 78	Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI  Diphtheria Influenza Scarlet fever Smallpox Typhoid fever  MISSOURI  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Mumps	312 3 107 1 47 21 716 3 12 3 2 52 69 16 867 34
Mumps Pneumonia Scarlet fever Septie sore throat Tuberculcsis Typhoid fever Vincent's angina Whooping cough  MARYLAND 1  Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza. Lethargic encephalitis Mensles Mumps Pneumonia (broucho) Pneumonia (bobar) Poliomyelitis	55 39 22 5 4 1 3 28 · 1 90 22 3 149 2 818 178 81	Scarlet fever Smallpox. Tuberculosis. Typhoid fever. Whooping cough  MISSISSIPPI  Diphtheria. Influenza. Scarlet fever. Smallpox. Typhoid fever.  MISSOURI  Cerchrospinal meaingitis. Chicken pox. Diphtheria. Influenza. Measles. Mumps. Pneumonia.	312 3 107 1 47 21 716 3 12 3 8 2 52 69 1 16 867 3 57
Mumps Pneumonia Scarlet fever Septae sore throat Tuberculcsis Typhold fever Vincent's angina Whooping cough  MARYLAND 1  Cerchrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles Mumps Pneumonia (broneho) Pneumonia (boar) Polomyelitis Scarlet fever	55 39 22 5 4 1 3 28 90 22 3 149 2 818 178 81 78	Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI  Diphtheria Influenza Scarlet fever Smallpox Typhoid fever  MISSOURI  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Mumps	312 3 107 1 47 21 716 3 12 3 8 2 52 69 1 16 867 3 57
Mumps Pneumonia Scarlet fever Septie sore throat Tuberculcsis Typhoid fever Vincent's angina Whooping cough  MARYLAND 1  Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza. Lethargic encephalitis Mensles Mumps Pneumonia (broucho) Pneumonia (bobar) Poliomyelitis	55 39 22 5 4 1 3 28 90 22 3 149 2 818 178 81 78	Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI  Diphtheria Influenza Scarlet fever Smallpox Typhoid fever  MISSOURI  Cerchrospinal meaingitis Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Rabies (in animals) Scarlet fever.	312 3 107 1 47 216 3 12 3 12 52 667 24 54 311
Mumps Pneumonia Scarlet fever Septae sore throat Tuberculcsis Typhold fever Vincent's angina Whooping cough  MARYLAND 1  Cerchrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles Mumps Pneumonia (broneho) Pneumonia (boar) Polomyelitis Scarlet fever	55 39 22 5 4 1 3 28 · 1 90 22 3 149 22 818 178 81 78 46 1	Scarlet fever Smallpox. Tuberculosis Typhoid fever. Whooping cough  MISSISSIPPI  Diphtheria Influenza Scarlet fever. Smallpox Typhoid fever.  MISSOURI  Cerebrospinal meningitis Chieken pox Diphtheria Influenza Influenza Measles Mumps Preumonia Rabies (in animals)	312 3 107 1 47 216 3 12 3 12 3 2 52 69 16 867 24 51 3
Mumps Pneumonia Scarlet fever Septae sore throat Tuberculceis Typhoki fever Vincent's angina Whooping cough  MARYLAND 1  Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Mensles Mumps Pneumonia (broncho) Pneumonia (lobar) Polnomyelitis Scarlet fever Septic sore throat	55 39 22 5 4 1 3 28 1 90 22 2 3 149 2 818 81 78 1 78 1	Scarlet fever Smallpox. Tuberculosis. Typhoid fever. Whooping cough  MISSISSIPPI  Diphtheria. Influenza. Scarlet fever. Smallpox. Typhoid fever.  MISSOURI  Cerchrospinal meningitis. Chicken pox. Diphtheria. Influenza. Measles. Mumps. Pneumonia. Rabies (in animals). Scarlet fever. Smallpox. Tuberculosis.	312 3 107 1 47 716 3 12 3 12 52 69 167 24 311 14 38
Mumps. Pneumonia. Scarlet fever. Septae sore throat. Tuberculesis. Typhoid fever. Vincent's angina. Whooping cough.  MARYLAND!  Cerchrospinal meningitis. Chicken pox. Diphtheria. German measles. Influenza. Lethargic encephalitis. Mensles. Mumps. Pneumonia (broucho) Pneumonia (lobar). Poliomyelitis. Scarlet fever. Septie sore throat. Tetanus.	55 39 22 5 4 1 3 28 1 90 22 3 149 2 818 8178 81 78 1 46 1 1	Scarlet fever Smallpox. Tuberculosis Typhoid fever. Whooping cough  MISSISSIPPI  Diplitheria Influenza Scarlet fever. Smallpox Typhoid fever.  MISSOURI  Cerebrospinal meningitis Chieken pox Diphtheria Influenza Measles Mumps Pneumonia Rabies (in animals) Scarlet fever. Smallpox Typhoid fever.  Missouri	312 3 107 1 47 21 716 3 12 3 8 2 52 69 1 16 867 24 311 144 38 4
Mumps. Pneumonla. Scarlet fever. Septae sore throat. Tuberculesis. Typhoid fever. Vincent's angina. Whooping cough.  MARYLAND 1  Cerchrospinal meningitis. Chicken pox. Diphtheria. German measles. Influenza. Lethargic encephalitis. Measles. Mumps. Pneumonia (broneho). Pneumonia (boar). Poliomyelitis. Scarlet fever. Septic sore throat. Tetanus. Tuberculesis.	55 39 22 5 4 1 3 28 1 90 22 3 149 2 818 178 81 78 1 46 1	Scarlet fever Smallpox. Tuberculosis. Typhoid fever. Whooping cough  MISSISSIPPI  Diphtheria. Influenza. Scarlet fever. Smallpox. Typhoid fever.  MISSOURI  Cerchrospinal meningitis. Chicken pox. Diphtheria. Influenza. Measles. Mumps. Pneumonia. Rabies (in animals). Scarlet fever. Smallpox. Tuberculosis.	312 3 107 1 47 21 716 3 12 3 8 2 52 69 1 16 867 24 311 144 38 4

1 Week ended Friday.

Deaths.

MONTANA	f	NEW YORKcontinued	
	ases		Cases
Cerebrospinal meningitis	1	Scarlet fever	238
Chicken pox	8	Septic sore throat	8
Diphtheria	1 20	Smallpox Typhoid fever	2 12
German measles Influenza	1	Vincent's angina	7
Measles	2	Whooping cough	361
Mumps	23		UOL
Rocky Mountain spotted fever	1	NORTH CAROLINA	
Scarlet fever	61	Chicken pox	202
Smallpox	6	Diphtheria	26
Tick paralysis	1	German measles	384 327
Trachoma	1	Measles Scarlet fever	
Tuberculosis	2	Septic sore throat	
Whooping cough	13	Smallpox	
NEBRASKA		Typhoid fever	4
Chicken pox	10	Whooping cough	174
Diphtherla	1	OKLAHOMA	
Measles.	23	1	
Mumps	7	(Exclusive of Tulsa and Oklahoma City	,
Pneumonia	3	Chicken pox.	29
Scarlet fever	73	Diphtheria	4
Smallpox	19	Influenza	1, 451
Tuberculosis	1	Malaria	13
Typhoid fever	2	Measles	38
Whooping cough	13	Mumps	7
NEW JERSEY		Pellagra	10
Chicken pox	143	Penumonia	237
Diphtheria		Poliomyelitis—Blaine County	20
Influenza		Scarlet fever Small pox	39 17
Measles	2, 230	Typhoid fever.	3
Pneumonia	. 287	Whooping cough	76
Poliomyelitis		ì	
Scarlet fever		OREGON	
Smallpox		Cerebrospinal meningitis	2
Typhoid fever		Chicken pox	20
Whooping cough	43	Diphtheria	22
NEW MEXICO		Influenza	61
Chicken pox	. 11	Lethargic encephalitis	1
Conjunctivitis		Measles	
Diphtheria		Mumps	
Influenza	. 1	Pneumonia	
Measles		Rocky Mountain spotted fever	
Mumps		Scarlet fever	33
Pneumonia		Polk County	10
Scarlet feverSeptic sore throat		Scattering	14
Tuberculosis		Tuberculosis	
Typhoid fever		Whooping cough	31
Whooping cough		PENNSYLVANIA	
NEW YORK		Anthray—Philadelphia	- 1
(Exclusive of New York City)		Chicken pox	
(Exclusive of New 1 ork City)		Diphtheria	151
Cerebrospinal meningitis		German measles	69
Chicken pox		Impetigo contagiosa	9
Diphtheria		Lethargic encephalitis:	
German measles		Erie	1
Influenza		Philadelphia	1
Lethargic encephalitis Measles	. 5	Measles	
Mumps.	. 1,606	Mumps Ophthalmia neonatorum—Pittsburgh	148 2
Pneumonia		Pneumonia	224
Poliomyelitis			224 8
********			۰

FENNSYLVANIA—continued	<b>~</b>	Washington	
Scarlet fever	Cases 494	Cerebrospinal meningitis:	Cases
Smallpox		Kittitas County	
Tetanus—Pittsburgh		Seattle	
Tuberculosis		Spokane	5
Typhoid fever		Chicken pox	39
Whooping cough		Diphtheria	5
		German measles	82
RHODE ISLAND Chicken pox	2	Influenza	5
Diphtheria		Measles	37
German measles		Mumps	44
lnfluenza		Scarlot fever	54
Measles	171	Smallpox	55
Pneumonia		Tuberculosis Typhoid fever	30 2
Searlet fever	1	Vincent's angina	1
Tuberculosis	14	Whooping cough	51
Whooping cough	8	,, o	0.2
TENNESSEE		WEST VIRGINIA	
Chicken pox		The late and	
Diphtheria		Diphtheria	3
Influenza Lethargic encephalitis—Lebanon		Influenza	115 421
Malaria		Scarlet fever	25
Mensles		Smallpox	2
Ophthalmia neonatorum		Tuberculosis	10
Pellagra		Whooping cough	19
Pneumonia			
Scarlet fever	40	WISCONSIN	
Smallpox		Milwaukee:	
Memphis	8	Chicken pox	72
Scattering	10	Diphtheria.	17
Tuberculosis		German measles Influenza	2 13
Typhoid fever		Measles	112
Whooping cough	14	Mumps	43
TEXAS ,	100	Pneumonia.	45
Chicken pox Diphtheria	1	Scarlet fever	31
Dysentery		Tuberculosis	27
Influenza		Whooping cough	40
Moasles		Scattering:	
Mumps	30	Chicken pox	141
Pellagra		Diphtheria	16
Pneumonia		German measles Influenza	45 467
Scarlet fever	1	Lethargic encephalitis	2
Smallpox		Mcasles	670
Trachoma		Mumps	247
Tuberculosis Typhaid fever		Pneumonia	38
Typhus fever		Scarlet fever	152
Whooping cough		Smallpox	1
UTAH		Tuberculosis	17
Chicken pox	21	Typhoid fever	2
Diphtheria	10	Whooping cough	164
Influenza		WYONNO	
Measles		WYOMING	_
Mumps		Chicken pox	5
Pneumonia		German measles	3
Scarlet fever		Measles Mumps	1 3
Whooping cough		Pneumonia (lobar)	
VERMONT		Rocky Mountain spotted fever.	_
Chicken pox	17	Hot Springs	1
Diphtheria		Johnson	2
Measles		Natrona	
Mumps	. 16	Weston	
Scarlet fever		Scarlet fever	
Whooping cough	. 20	Whooping cough	12

### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

-										
State	Cere- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
New Mexico: July, 1925 August, 1925 September, 1925 October, 1925 November, 1925 December, 1925 January, 1926	0 0	30 222 8 18 21 8	0 3 0 0 5 3 10	2 2 0 0 6 1	1 3 2 2 2 1 2 7	2 0 1 5 1 1	0 2 3 2 3 1 2	6 8 6 41 74 42 67	0 0 0 0 2 2 2 3	25 52 77 89 77 21
February, 1926  Alabama Maine Massachusetts Mississippi Montann New Mexico Oregon South Carolina Virginia Washington	3	83 7 273 153 10 28 89 183 137 95	3, 582 45 50 46, 585 340 742 1, 126 11, 490 12, 875 67	40 0. 0 1,945 0 0 276 32 0	186 248 6,441 1,802 37 13 210 36 1,220 77	53 0 1 245 0 14	1 2 4 1 0 1 1 0 1 0	82 124 1,119 53 152 41 168 32 293 402	148 0 0 82 36 17 185 83 34 397	51 9 23 65 4 7 14 62 27 15

### SMALLPOX AT SEATTLE, WASH.

Senior Surgeon George M. Magruder, of the United States Public Health Service, reports smallpox cases and deaths in Seattle, Wash., as follows: Three months ended December 31, 1925, 28 cases, no death. January 1 to March 23, 1926, 92 cases, 8 deaths. In King County, including Seattle, from January 1 to March 23, 122 cases, 22 deaths. Smallpox cases were reported in the State in somewhat greater numbers than last year, but the fatal type of the disease appears to be confined to Seattle and King County. Active measures are being taken to control the disease.

#### PLAGUE ERADICATIVE MEASURES IN LOS ANGELES, CALIF.

The following items were taken from the reports of plague eradicative measures from Los Angeles, Calif.:

Week ended March 20, 1926:	
Number of rats trapped	2, 140
Number of rats found to be plague infected	0
Number of squirrels examined.	789
Number of squirrels found to be plague infected	0
Number of mice trapped	2, 124
Number of mice found to be plague infected	0
Date of discovery of last plague-infected rodent, Nov. 6, 1925.	
That of last human ages Ton 15 1005	

Date of last human case, Jan. 15, 1925.

# GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended March 20, 1926, 36 States reported 1,150 cases of diphtheria. For the week ended March 21, 1925, the same States reported 1,403 cases of this disease. One hundred and one cities, situated in all parts of the country and having an aggregate population of more than 30,300,000, reported 699 cases of diphtheria for the week ended March 20, 1926. Last year for the corresponding week they reported 919 cases. The estimated expectancy for these cities was 984 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-four States reported 16,396 cases of measles for the week ended March 20, 1926, and 3,682 cases of this disease for the week ended March 21, 1925. One hundred and one cities reported 10,415 cases of measles for the week this year, and 2,779 cases last year.

Poliomyelitis.—The health officers of 36 States reported 18 cases of poliomyelitis for the week ended March 20, 1926. The same States reported 13 cases for the week ended March 21, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-six States—this year, 3,911 cases; last year, 4,350 cases; 101 cities—this year, 1,751 cases; last year, 2,355 cases; estimated expectancy, 1,242 cases.

Smallpox.—For the week ended March 20, 1926, 36 States reported 905 cases of smallpox. Last year for the corresponding week they reported 1,020 cases. One hundred and one cities reported smallpox for the week as follows: 1926, 211 cases; 1925, 348 cases; estimated expectancy, 142 cases. Eleven deaths from smallpox were reported by these cities for the week this year—8 at Los Angeles, Calif., 1 at Sacramento, Calif., and 2 at San Francisco, Calif.

Typhoid fever.—One hundred and sixteen cases of typhoid fever were reported for the week ended March 20, 1926, by 36 States. For the corresponding week of 1925, the same States reported 188 cases of this disease. One hundred and one cities reported 33 cases of typhoid fever for the week this year and 63 cases for the corresponding week last year. The estimated expectancy for these cities was 42 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 95 cities, with a population of more than 29,600,000, as follows: 1926, 2,556 deaths; 1925, 1,389.

### City reports for week ended March 20, 1926

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidentic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

		GN LAN	Diphi	heria	Influ	ienza	Man		
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine:	77.000	3		0	0		61		,
Portland New Hampshire:	75, 333	0	1	6	ì	0	61	4	3
Concord Vermont:	22, 546	1	0	-	0	0	2	0	4
Barre. Burlington	10, 008 24, 089	0	0	6	0	0	0	0	0
Massachusetts: Boston	779, 620	36	60	25	56	6	190	17	76
Fall River Springfield Worcester	128, 993 142, 065	7	4	0	3 2	1 2	13 167	0	3 6
Worcester Rhode Island:	190, 757	1	4	6	1	0	20	0	12
Pawtucket Providence	69, 760 267, 918	0	10	0 5	103	.4	58 127	0	8 12
Connecticut: Bridgeport	(1)	2	7	3	15	4	7	0	6
Hartford. New Haven	160, 197 178, 927	1 14	8	9 2	7	1	56 29	1 0	6 15
MIDDLE ATLANTIC							}		:
New York:	F00 010		-		1	_			
Buffalo New York	538, 016 5, 873, 356	14 121	13 235	10 139	18 946	5 87	2, 147	0 54	34 608
Rochester Syracuse		12	6	9 2	11 106	16 5	79 102	1 21	38 21
New Jersey: Camden	128, 642	8	5	4	3	2	19	1	15
Newark Trenton	452, 513 132, 020	52 0	18	11 5	57 3	2	557 5	9	38
Pennsylvania: Philadelphia	1	83	84	57		61	751	14	194
Pittsburgh Reading	. 631, 563	40 8	20	13 2		9	45 11	0	35 17
EAST NORTH CENTRAL									
Ohio:	100 000			١.					
Cincinnati	. 936, 485	16 32	10 25	13	446	7 14	10 317	6	15 53
Columbus Toledo	279, 836 287, 380	34	5	3 6	1 3	1 5	494 165	0	8 7
Indiana: Fort Wayne	97, 846	13	3 7	0	0	0	12	0	1
Indianapolis South Bend	. 1 358, 819	12	7	5 2	0	2 0	1,060	2	29
Terre Haute	71,071	3	1	4	Ö	Ō	8	ŏ	1 2
Chicago Peoria	2, 995, 239 81, 564	96	100	43	577 0	49 0	89 0	15 3	252 6
Springfield	63, 923	13	ĭ	ĭ	3	3	8	5	4
Detroit	1, 245, 824 130, 316	24 10	51 5	44	27 5	18	623 10	14 0	117 14
Grand Rapids	153, 698	9	3	1	4	1 0	23	0	8

¹ No estimate made.

City reports for week ended March 20, 1926-Continued

Population July 1, 1925.	Chick- en pox,				1			
estimated	cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
50, 891 46, 385 509, 192 67, 707	13 5 101	2 1 15 1	5 1 18	0 0 7	0 1 1	1 150 114	0 1 49	3 1 14
39, 671	0	Õ	0	0	0	0	0	Ō
110, 502 425, 435 246, 001	15 88 21	1 16 14	0 14 3	0 0 0	0 3 3	7 209 19	0 2 6	1 17 8
52, 469 141, 441 76, 411 36, 771	5 18 3 2	1 3 1 0	1 0 0 0	0 1 0 0		0 301 0 11	0 31 1 0	
367, 481 78, 342 821, 543	28 0 40	8 1 40	2 0 52	9 0 2	8 1	299 0 228	8 0 4	18 4
26, 403 14, 811	2 0	1 0	0 0	0 0	0	0 4	10 0	1
15, 036 30, 127	0 4	0 1	0	0	ō-	14 4	57 0	ō
60, 941 211, 768	9	2 4	1 0	0	1 0	0 26	1 1	0 11
55, 411 88, 367	6 10	1 2	2 0	0	0	11 128	0	1 8
,								
122, 049	0	2	3	0	0	70	0	16
796, 296 33, 741	73 1	26 1	15 1	33 3	0	609 25	132	55 1 2
497, 906	37	11	9	0	0	459	0	23
30, 395 (1)	11 21	1 2	0	0	1 0	36 6	1 0	3 17
58, 208	3	0	2	0	İ	94	l	6 9
63, 485	14 0 7	0 1 2	0	8 6 0	0 0	13 9 72	0 0	2 2 8
30, 371 37, 061	2 14 11	0 0	0	0	3 2 3	0 0 63	0 3 6	3 4 4
73, 125	0	0	1 0	40	2 0	0 1 0	0 1 1	7 0 3
(¹) 16, 809	6 14	2 0	3 0	54 0	4 0	7 0	0 2	13
26, 847		. 0			. 0			1
	509, 1922 67, 707. 89, 671. 110, 502 425, 435 246, 001 52, 469 141, 441 76, 411 78, 342 821, 543 26, 403 14, 811 15, 036 30, 127 60, 941 211, 768 55, 411 88, 367 122, 049 796, 296 33, 741 12, 035 49, 019 63, 485 56, 208 49, 019 63, 485 56, 208 30, 371 37, 061 69, 31 78, 32 88, 367	509, 192 101 67, 702 15 425, 435 88 246, 001 21 52, 469 5 141, 441 18 76, 411 3 36, 771 2 367, 432 28 78, 342 0 821, 543 40 26, 403 2 14, 811 0 15, 036 0 30, 127 4 60, 941 9 211, 768 9 55, 411 6 88, 367 10  122, 049 0 796, 296 73 33, 741 12, 035 0 497, 906 37 30, 395 11 12, 035 0 497, 906 37 30, 395 11 12, 035 0 497, 906 37 30, 395 11 12, 035 0 497, 906 37 30, 395 11 12, 035 0 497, 906 37 30, 395 11 12, 035 0 497, 906 37 30, 395 11 12, 035 0 497, 906 37 30, 395 11 12, 035 0 497, 906 37 30, 395 11 12, 035 0 497, 906 37 30, 395 11 12, 035 0 497, 906 37 30, 395 11 12, 035 0 497, 906 37 30, 395 11 12, 035 0 497, 906 37 30, 395 11 12, 035 0 497, 906 37 30, 395 11 12, 035 0 497, 906 37 30, 395 11 12, 035 0 497, 906 37 30, 395 11 12, 035 0 497, 906 37 30, 395 11 12, 035 0 497, 906 37 30, 395 11 136, 403 7 58, 208 7 37, 061 64 69, 031 11 31, 125 0 41, 225 1 27, 311 6	509, 192	506, 192         101         15         18           67, 707         0         0         0           110, 502         15         1         0           425, 435         88         16         14           246, 001         21         14         3           52, 469         5         1         1         1           76, 411         3         1         0         0           367, 481         28         8         2         2           78, 342         0         40         52         2           26, 403         2         1         0         0           30, 127         4         1         0         0           30, 127         4         1         0         0           20, 796         3         1         1         2           20, 949         0         2         3         3           796, 294         7         2         0         0           497, 906         37         11         9           30, 395         11         1         0           49, 019         14         0         0	509, 192         101         15         18         7           67, 707         0         0         0         0         0           110, 502         15         1         0         0         0         0           425, 435         88         16         14         0         0         0         0         0         0         0         0         0         141, 441         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td>506, 192         101         15         18         7         1           67, 707         0         0         0         0         0         0           110, 502         15         1         0         0         0         0           425, 435         88         16         14         0         3         3           52, 469         5         1         1         0         0         0         3           76, 411         3         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td> <td>509, 192         101         15         18         7         1         114           67, 707         39, 671         0         0         0         0         0         0         0           110, 502         15         1         0         0         0         3         209           246, 001         21         14         3         0         3         19           52, 469         5         1         1         0         0         0         3         19           76, 411         3         1         0         0         0         0         11         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301</td> <td>569, 192         101         15         18         7         1         114         49           67, 707         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td>	506, 192         101         15         18         7         1           67, 707         0         0         0         0         0         0           110, 502         15         1         0         0         0         0           425, 435         88         16         14         0         3         3           52, 469         5         1         1         0         0         0         3           76, 411         3         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	509, 192         101         15         18         7         1         114           67, 707         39, 671         0         0         0         0         0         0         0           110, 502         15         1         0         0         0         3         209           246, 001         21         14         3         0         3         19           52, 469         5         1         1         0         0         0         3         19           76, 411         3         1         0         0         0         0         11         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301         301	569, 192         101         15         18         7         1         114         49           67, 707         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0

¹ No estimate made.

City reports for week ended March 20, 1926-Continued

			Diphi	heria	Influ	enza				
Division, State, and city	Population July I, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases ro- ported	Pneu- monia, deaths re- ported	
EAST SOUTH CENTRAL										
Kentucky Covington Louisville	58, 309 305, 935	8	1 5	i	64	2 5	302	<u>ō</u>	4 36	
Tennessee:     Momphis     Nashville Alabama:	174, 533 136, 220	26 1	5 1	3 1	0	6 12	48 53	10 1	9	
Birmingham Mobile Montgomery	205, 670 65, 955 46, 481	29 0 4	1 0	0 0	115 1 3	17 1 0	34 0 0	, 2 1 21	12 3 0	
WEST SOUTH CENTRAL										
Arkansas: Fort Smith Little Rock Louisiana:	31, 643 74, 216	9	1 1	1 0	0 18	2	0 4	0	4	
New Orleans Shreveport Oklahoma	1	6· 5	9	1	19 0	12	0	0	15 4	
Oklahoma City Texas: Dallas	(1) 194, 450	31	2 4	11	68	2	1	0	5	
Galveston Houston San Antonio	48, 375 164, 954	1 4 0	0 2 2	0 6 1	0 0	0 3 4	0 2 1	0 0	4 14 11	
MOUNTAIN										
Montana: Billings Great Falls Helena Missoula	29, 883 12, 037	6 12 0 0	0 1 0 1	0 0 0	0 0 0 21	1 0 0 1	0 1 0 0	3 5 0 0	0 1 3 1	
Idaho: Boise Colorado:	1	1	0	0	0	0	2	0	0	
Denver Pueblo New Mexico:	280, 911 43, 787	31 7	7	7 0	0	3 0	21 12	0	12 4	
Albuquei que Arizona:	1	1	1	0	1	0	0	5	3	
Phoenix Utah. Sult Lake City	38, 669 130, 948	0 11	0 3	1 1	0	0	1 0	19	0	
Nevada: Reno	12,665	0	0	0	0	0	0	0	1	
PACIFIC										
Washington: Seattle Spokane Tacoma	(1) 108, 897 104, 455	28 16 1	5 3 1	6 2 2	0 0	0	34 0 4	68 0 2	0	
Oregon: Portland California:	282, 383	23	4	3	1	0	12	24	10	
Los Angeles Sacramento San Francisco	(1) 72, 260 557, 530	90 3 49	37 1 22	77 4 14	10 0 1	4 0 1	17 2 62	12 5 21	22 2 4	

¹ No estimate made.

# City reports for week ended March 20, 1926-Continued

	1				allner					<u> </u>	
	Scarlet	fever	1	Smallpo	X	Tuber-	Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
NEW ENGLAND											
Maine Portland	2	10	0	0	ı	1	0	0	0	0	23
New Hampshile: Concord	1	0	0	0	0	0	0	0	0	0	13
Vermont: BarreBurlington	1	0 7	0	0	0	1 0	0	0	C <b>0</b>	0	6 6
Massachusetts	61	101	0	0	0	14	1	0	0	164	349
Fall River Springfield Worcester	3 7 9	3 7 9	0 0 0	0 0 0	0 0 0	1 3	0	0 0 0	0 0 0	1 19 18	47 59
Rhode Island Pawtucket Providence	1 9	0 6	0	0	0	0 2	1 0	0	0	8 2	30 78
Connecticut: Bridgeport Hartford New Haven	9 6 8	20 3 12	1 0 0	0 0	0 0 0	3 0 2	0 0 0	0 0 0	0 0 0	5 6 22	43 34 68
MIDDLE ATLANTIC											
New York: Buffalo New York Rochester Syracuse	. 17	17 164 15	0 0 0	0 0	0 0	8 1 131 8 4	1 7 0 0	0 7 0 0	0 0 0 0	31 88 13 74	159 2, 331 133 91
New Jersey: Camden Newark Trenton	4 25	9 26 7	0 0	0	0		0 0	0 0 1	0 0	18 0	53 155 57
Pennsylvania Philadelphia_ Pittsburgh Reading	- 75 23	77 77 12	1 0 0	0 0	000	14	3 0 0	000	0 0	39 48 7	833 233 60
EAST NORTH CEN- TRAL											
Ohio: Cincinnati Cleveland Columbus Toledo	32	23 58 16 19	2 1 · 2 5	0 2	0000	23	1	1 0 0 1	0 0 0	28 117 1 43	152 274 86 75
Indiana: Fort Wayne_ Indianapolis_ South Bend_ Terre Haute_	- 9	13 20 3 5	2	31	0	9	0	0 0	0000	36	142 18
Illinois: Chicago Peoria Springfield	_ 4	142 5 5	1	1 0		) 1	. 0	0	0	10	28
Michigan: Detroit Flint Grand Rapids	92	13	1	. 0	) (	) (	) 0		(	24	34
Wisconsin: Kenosha Madison Milwaukee	3 30	22		0 0	) (	) (	0 0		1 (	5   1	
Racine Superior	- 4	₈		5	-	0-1		0		0	19

¹ Pulmonary tuberculosis only.

City reports for week ended March 20, 1926-Continued

,	Scarlet	carlet fever Smallpox					Ту	over	Whoop-		
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Tuber- culo- sis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST NORTH CENTRAL									,		
Minnesota: Duluth Minneapolis St. Paul Iowa:	5 38 29	27 68 36	1 10 7	0 0 0	0 0 0	3 3 3	0 1 1	0 0 0	0 0 0	16 3 51	20 113 69
Davenport Des Moines Sioux City Waterloo Missouri:	2 7 2 3	1 2 2 1	2 3 1 0	0 1 1 0			0 0 0	0 0 0		15 1 1	
Kansas City St. Joseph St. Louis North Dakota:	12 3 31	28 1 199	2 0 5	1 0 9	0	7 1 7	0 0 1	0 0 1	0 0 0	25 0 21	138 33 253
Fargo Grand Forks South Dakota:	0	3 0		0	0	1	0	0	0	0 0	8
Aberdeen Sioux Falls Nebraska:	1	5	0	0	0	1		0	0	Ō	4
Lincoln Omaha Kansas:	1	37	6	0 14	0	0	0	0	0	13	19 44
Topeka Wichita	3 2	1	3	0	0	0	0	0	ő	3 11	15 32
SOUTH ATLANTIC											
Delaware: Wilmington Maryland:	_ 2	5	0	0	0	1	0	0	1	5	39
Baltimore Cumberland Frederick	37 1 0	24 1 2	. 1 0		0	19 0 0	1 0	0	0 0 0	32 3 0	276 16 6
District of Col.: Washington	26	19	2	0	0	6	1	0	0	30	148
Virginia: Lynchburg Norfolk Richmond Roanoke	0 2 2 2 0	3 9 4 4	0	0 0 0 1	000	1 2 6 1	0 0 0	0 0	0 0 0	6 6 3 0	11 63 35
West Virginia: Charleston Huntington Wheeling North Carolina:	. 0 1 2	1 2 3	1 1 0	Õ	0		0 0 1	6 0 3	0 1 0	8 0 0	27 19 30
Raleigh Wilmington Winston-Saler South Carolina:	n 0	3000	: 0	0	000	1 0	0 0	0	0	0 1 1	18 14 20
Charleston Columbia Greenville Georgia:	1 1	0 0	)   1	1	000	0	0 0	0 0	0 0	0 0 5	30 10
Atlanta Brunswick Savannah Florida:	. 5 0 . 1	4 0 1	0	0	0	1	0 0	0 1 0	0	1 0 0	91 5 31
St. Petersburg Tampa	1 0	ō	- 0		. 8	1 4	0 2	_i -	0	····ō	• 17 • 55

# City reports for week ended March 20, 1926-Continued

	Scarlet fever		Smallpox			Tuber-	Typhoid fever			Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re- ported	mated	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
EAST SOUTH CENTRAL											
Kentucky: Covington Louisville Tennessee:	2 5	5	1 1	0	0	3 7	0	4	0	4	28 133
Memphis Nashville Alabama:	4 3	15 3	2 2	7 0	0	2 6	1 0	0	0	4 1	65 71
Birmingham Mobile Montgomery	2 0 1	5 0 0	8 2 1	9 0 0	0 0 0	7 0 0	1 0 0	0 0 0	1 0 0	9 0 0	76 30 38
WEST SOUTH CENTRAL											
Arkansas: Fort Smith Little Rock	1 1	0 7	] 1	0 1	Ô	4	0	0	ō	2 0	
New Orleans Shreveport	5 1	8 1	3 2	4 0	0	15 2	2 0	2 0	0 0	0 3	161 31
Oklahoma: Oklahoma City Texas.	2	2	5	0	0	3	0	0	0	0	29
Dallas Galveston Houston San Antonio	2 0 1 1	12 0 3 1	5 0 2 0	3 10 14 - 0	0 0 0 0	4 2 5 9	0 0 0	0 0 0 0	0 0 0 0	13 0 0 0	59 18 57 60
MOUNTAIN											
Montana: Billings Great Falls Helena Missoula	1 1 0 0	0 1 0 2	0 1 0 0	0 0 0 0	0 0 0	0 0 1 0	0 0 0 0	0 0 0	0 0 0 0	3 2 0 0	9 7 7 10
Idaho: Boise Colorado:	1	0	0	4	0	0	0	0	0	1	8
Denver Pueblo New Mexico:	13	21 2	0	1 0	0	11	0	0	0	63 4	82 12
Albuquerque Arizona:	. 1	2	0	0	0	4	0	0	0	10	18
Phoenix Utah:	. 1	0	0 2	0	0	10	0	0	0	47	23
Salt Lake City Nevada: Reno	0	0	0	0	0	0	0	0	0	0	24
PACIFIC											
Washington: Seattle	10 4 3	36 14 2	4 7 2	11 0 9	ō	0	1 0 0	0 0	0	5 3 4	
Oregon: Portland California;	- 6	24	13	5	0	1	0		0	0	69
Los Angeles Sacramento San Francisco	20 2 15	27 10 15	1 7	2	1 2	. 1	0 1	0 1	0 0		252 25 122

City reports for week ended March 20, 1926-Continued

Oug report	0 J 0. W	.0010 011			,				
	Cerebro	espinal ngitis	Leth encep	argie halitis	Pell	agra	Polion tale	nyelitis ( paralys	(infan- is)
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
NEW LNGLAND									
Massachusetts: Boston Connecticut: Hartford	1 0	1 0	1	1 0	0	0	0	0	0
MIDDLE ATLANTIC					-				
New York: New York New Jersey.	4	3	5	6	0	0	1	1	0
Newark Pennsylvania:	0	0	3	1	0	0	0	0	
Philadelphia	0	0	1	1	0	0	0	0	. 0
EAST NORTH CENTRAL									ł
Indiana: Indianapolis Michigan:	ì	0	0	0	0	0	0	0	0
Detroit Wisconsin: Milwaukee	0	0	0	1	0	0	0	0	0
SOUTH ATLANTIC				-					
Georgia: Savannah Florida:	. 0	0	0	o _.	0	1	0	0	0
Tampa	. 1	0	0	0	0	0	0	0	0
WEST SOUTH CENTPAL									
Louisiana: Shroveport Texus:	1	0	0	0	0	1	1	0	0
Galveston	. 0	0	0	0	0	2	0	0	0
MOUNTAIN									
Colorado: Denver Utah:	. 0	0	0	1	0	0	0	0	0
Salt Lake City	. 1	0	0	0	0	0	0	0	0
PACIFIC			1						
Washington: Scattle Spokane	2		0		0	0	0	0	0
Oregon: PortlandCalifornia:	. 0	1	0	0	0	0	0	0	0
Los Angeles San Francisco	1 2		0		0	0	0	8	- 0

The following table gives the rates per 100,000 population for 103 cities for the five-week period ended March 20, 1926, compared with those for a like period ended March 21, 1925. The population figures used in computing the rates are approximate estimates as of July 1, 1925 and 1926, respectively, authoritative figures for many of the cities not being available. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and

more than 29,750,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below:

Summary of weekly reports from cities, February 14 to March 20, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925 1

0j 1920 -	:	DIPHT	HERIA	CASI	RAT	ES				
					Week	ended-				
	Feb. 21, 1925	Feb. 20, 1926	Feb. 28, 1925	Feb. 27, 1926	Mar. 7, 1925	Mar. 6, 1926	Mar. 14, 1925	Mar. 13, 1926	Mar. 21, 1925	Mar. 20, 1926
103 cities	153	137	2 163	135	156	3 124	162	4 114	161	⁵ 120
New England Middle Atlantic. East North Central West North Central South Atlantic. East South Atlantic. West South Central West South Central Mountain Pacific.	203 148 74 119 157	116 132 134 202 105 57 90 218 205	2 184 177 111 289 108 47 154 148 246	102 118 140 241 73 52 116 209 216	225 166 107 273 98 58 137 83 224	95 111 123 3 235 109 47 103 73 189	170 213 120 195 86 37 150 102 188	78 112 6 197 214 86 8 28 103 109 148	141 196 125 193 129 63 92 139 237	128 125 7 97 144 69 8 28 103 73 283
MEASLES CASE RATES										
108 cities	367	1, 994	2 342	2, 047	403	³ 1, 883	433	1, 693	487	5 1, 790
New England Middle Atlantie. East North Centual Wes' North Centual South Atlantie East South Centual West South Centual West South Centual West South	371 637 26 104 47 13	2, 709 1, 913 2, 899 677 3, 279 900 9 137 202	2 569 341 589 70 77 42 48 888 58	2, 188 2, 040 3, 080 891 3, 109 1, 235 9 82 162	633 426 738 66 94 79 22 28 102	2, 446 1, 840 2, 691 3 8 '5 2, 697 1, 323 17 209 278	72 138	1,969 1,713 °2,132 1,637 2,267 81,499 337 326	700 595 726 90 179 63 40 555 180	1, 725 1, 855 7 2, 008 1, 872 2, 795 8 2, 408 43 328 321
	sc	ARLE'	r fev	ER CA	SE RA	TES	· . · . · . · . · · · · · · · · · · · ·		·	<u></u>
103 cities.	376	309	2 390	285	381	3 290	415	4 303	411	³ 301
New England. Middle Atlantic. East North Central. West North Central. South Atlantic. East South Central. West South Central. West South Central. Mountain. Pacific.	374 403 719 157 205	362 208 372 772 150 244 108 237 332	2 543 411 402 711 192 168 137 305 213	354 187 339 695 201 171 112 100 313	563 370 403 752 161 179 176 277 207	347 185 345 3815 163 187 90 337 313	515 437 469 697 207 326 101 194 218	333 192 6 370 893 150 8 149 112 218 251	525 416 460 768 138 263 128 416 207	404 202 7 341 800 158 8 154 138 246 280
	,	SMAL	LPOX	CASE	RATE	S		·	·	
103 cities	64	41	2 64	41	60	3 50	59	4 40	61	5 36
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	52 52 123 63 488 79 83	0 0 33 63 51 104 142 36 194	2 0 3 26 117 40 536 110 55 298	0 0 18 77 66 52 133 46 245	0 1 40 111 48 599 70 46 196	0 0 23 3 62 100 67 194 36 302	0 5 37 121 56 410 70 92 235	0 6 19 67 49 5 72 142 18 262	0 8 30 98 54 593 101 65 202	0 7 26 49 60 8 88 138 64 164

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of eases reported. Populations used are estimated as of July 1, 1925, and 1926, respectively.

2 Hartford, Conn., not included.

3 Kansas City, Mo., not included.

4 Madison, Wis., and Covington, Ky., not included.

5 Racine, Wis., and Covington, Ky., not included.

6 Madison, Wis., not included.

7 Racine, Wis., not included.

8 Covington, Ky., not included.

Summary of weekly reports from cities, February 14 to March 20, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925—Continued

#### TYPHOID REVER CASE RATES

				Week e	nded-					
Feb. 21, 1925	Feb. 20, 1926	Feb. 28, 1925	Feb. 27, 1926	Mar. 7, 1925	Mar. 6, 1926	Mar. 14, 1925	Mar. 13, 1926	Mar. 21, 1925	Mar. 20, 192	
10	-7	2 13	5	10	3 10	9	48	11	5 (	
10 6 4 8 32 40 37	7 4 5 6 4 5 22 18 16	2 13 8 6 16 19 32 40 74 8	5 2 1 2 11 10 30 18 8	7 10 8 6 8 32 26 9	12 4 5 0 6 10 39 146 16	5 5 3 10 23 32 26 18 14	5 7 6 4 4 8 8 6 4 148	29 8 6 8 21 42 22 0 0	7 2 8 2	
INFLUENZA DEATH RATES										
29	50	2 34	47	30	3 51	33	671	40	77	
21 17 21 52 68	27 11 19 137 161 298 109	2 39 20 23 36 46 116 140 18 25	19 39 14 23 100 135 227 100 35	17 15 25 34 50 95 135 18 25	12 68 14 3 5 47 259 182 109 32	34 24 31 32 31 84 102 46 15	24 105 6 32 35 77 197 104 146 21	29 46 40 50 110 73 46 11	4 9 7 6 3 5 22 15 4	
	PNEUI	MONIA	DEAT	H RAT	es					
207	259	2 190	260	196	3 209	214	6 325	208	7 37	
173 127 239 294 386 203	289 180 125 486 296 553 173	184 160 150 275 268 208 259	316 179 106 451 301 378 410	21S 209 182 136 251 247 218 129 124	187 357 206 3 96 340 311 387 237 117	220 213 226 169 232 336 169 203 138	217 460 6 289 146 301 389 255 300 92	201 216 208 167 275 263 169 166 116	35 50 7 35 14 34 40 27 29	
	21, 1925  10  0  0  4  8  32  40  37  22  17  21  17  21  155  68  1455  111  207  232  241  173  173  173  233  241  241  251  268  268  268  268  268	21, 1925 20, 1926  - 10	21, 1925 20, 1926 28, 1925  - 10	Fob.   Feb.   22, 1925   23, 1925   27, 1926   28, 1925   27, 1926   28, 1925   27, 1926   28, 1925   27, 1926   28, 1925   27, 1926   28, 1925   27, 1926   28, 1925   27, 1926   28, 1925   27, 1926   28, 1925   27, 1926   28, 1925   27, 1926   28, 1925   27, 1926   28, 1925   27, 1926   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925   28, 1925	Feb. Feb. 22, 1925 27, 1926 7, 1925 20, 1926 28, 1925 27, 1926 7, 1925 27, 1926 7, 1925 27, 1926 7, 1925 27, 1926 7, 1925 27, 1926 7, 1925 27, 1926 7, 1925 27, 1926 7, 1925 27, 1926 27, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 28, 1926 2	Feb. Feb. Feb. Feb. Feb. Mar. 6, 1926  - 10 -7   213   5   10   310  - 0   7   213   5   7   122  - 10   4   8   2   10   4   8   2   10   4   4   8   2   10   4   4   8   2   10   4   4   10   10   10   10   10	Feb.   Feb.   Feb.   Feb.   Mar.   Mar.   Mar.   Mar.   14, 1925	Feb.   Feb.   Feb.   28, 1925   27, 1926   7, 1925   6, 1928   14, 1925   13, 1928	Feb.	

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1935 and 1926, respectively

Group of cities	Number of cities reporting	Number of cities reporting	of cities cases	population reporting	Aggregate of cities deaths	population reporting	
,	cases	deaths	1925	1926	1925	1926	
Total	103	96	29, 944, 996	30, 473, 129	29, 251, 658	29, 764, 201	
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Padfic	12 10- 16 14 21 7 8 9	12 10 16 11 21 7 6 9	2, 176, 124 10, 346, 970 7, 481, 656 2, 594, 962 2, 716, 070 993, 103 1, 184, 057 563, 912 1, 888, 142	2, 206, 124 10, 470, 970 7, 655, 436 2, 634, 662 2, 776, 070 1, 004, 953 1, 212, 057 572, 773 1, 934, 094	2, 176, 124 10, 346, 970 7, 481, 656 2, 461, 380 2, 716, 070 993, 103 1, 078, 198 563, 912 1, 434, 245	2, 206, 124 10, 476, 970 7, 655, 436 2, 499, 036 2, 776, 970 1, 104, 953 1, 103, 695 572, 773 1, 469, 144	

² Hartford, Conn., not included.
³ Kansas City, Mo., not included.
⁴ Madison, Wis., and Covington, Ky. not included.
⁵ Racine, Wis., and Covington, Ky., not included.

<sup>Madison, Wis., not included.
Racine, Wis., not included.
Covington, Ky., not included.</sup> 

### FOREIGN AND INSULAR

#### THE FAR EAST

Report for week ended March 6, 1926.—The following report for the week ended March 6, 1926, was transmitted by the Far Eastern Bureau of the health section of the League of Nations' secretariat, located at Singapore, to the headquarters at Geneva.

	Pla	gue	Cho	Iera		all- ox		Pla	апо	Ch	olera	Sm	all- ox
Port	Cases	Deaths	Cases	Deaths	Cases	Deaths	Port	Cases	Deaths	Cases	Deaths	Cases	Deaths
Calcutta Madras Rangoon Karachi Negapatam Colombo Basra Singapore Port Swettenham Penang Batavia Surabaya Samarang Cheribon Belawan Deli Palembang Padang (Sumatra) Sabang (Rhio) Makassar Menada Banjermasin Pontianak (Borneo) Sandakan (North Borneo) Kuching (Sarawak) Timor Dilly Manila Zamhoanga Bangkok Saigon and Cholon Haiphong Tourane Hongkong Shanghai Amoy Keelung Fusan	100000000000000000000000000000000000000	1	0	455101100000000000000000000000000000000	61 13 8 17 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	37 1 8 4 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Chemulpo. Dairen. Adelaide. Bilsbaue. Fremantle. Melbourne. Sydney. Rockhampton. Townsville. Port Darwin Broome. Port Moresby. Auckland. Wellington. Christchurch. Invercargill. Noumea (New Caledonia). Honolulu. Suez. Tor Quarantine Station. Alexandria. Port Soid. Mombasa (Kenya). Zanzibar. Massowah. Djibuti. Berbera Mozambique. Lourenco Marques. Durban. Eest London. Port Elizabeth. Cape Town. Port Louis (Mauritus). Seychelles.	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	050000000000000000000000000000000000000	

#### BRAZIL

Plague—Sao Paulo.—Under date of March 25, 1926, the occurrence of four cases of plague with one death was reported at Sao Paulo, Brazil.

#### CANADA

Communicable diseases—Week ended March 20, 1926.—The Canadian Minister of Health reports certain communicable diseases in six Provinces of Canada for the week ended March 20, 1926, as follows:

Disease	Nova Scotia	Quebec	Ontario	Mani- toba	Sas- katch- ewan	Alberta	Total
Cerebrospinal feverInfluenza	13	1	1	2			2 15
Lethargic encephalitis Smallpox Typhoid fever		2	7 8	1 4 1	4	1 3	1 16 14

#### MALTA

Communicable diseases—February, 1926.—During the month of February, 1926, communicable diseases were reported in the island of Malta as follows:

Disease	Cases	Discase	Cases
Bronchopneumonia Cerebrospinal meningitis Chicken pox Diphtheria Influenza Lethargic encephalitis Malla (undulant) fever Measles	50 8 6	Pneumonia Puerperal fever Scarlet fever Smallpox Trachoma Tuberculosis Typhold fever	

Population, civil, estimated, 223,088.

#### PERU

Plague—January, 1926.—During the month of January, 1926, plague was reported in Peru with 196 cases and 67 deaths, distributed according to locality as follows:

Place	Cases	Deaths	Place	Cases	Deaths
Ayabaca 1 Barranca Barranco Cajamarca 2 Callao Chiclayo Chilca 1 Chopon Chota Eten (city) Guadalupe Hualgayoc 2 Hualcaho (and estates) Huancaho (and estates)	9 1 1 7 9 16 2 2	2 2 2 2 2 2 13	Lima (city) Lima (cstates) Mala (cañote) Miraflores Mollondo Niepos (Hualgayoe) Otuzco Pacasmayo Puerto Eten Salaverry San Pedro Supe Trujillo (and estates)	17 5 1 7 2	2 6 5 4 2 7 7

¹ Present.

² Districts.

693 April 9, 1926

Localities not reporting.—No report was received from Cuzco and Arequipa, the two largest cities in southern Peru; the same is true of the cis-Andean Departments. The travel between Western Peru and the Amazonian or cis-Andean Departments was stated to be negligible and to be very limited between Cuzco, Arequipa, and other plateau cities of Peru and the sea coast.

#### SAMOA (WESTERN)

Bacillary dysentery—Filariasis—Hookworm infection.—Under date of March 8, 1926, 60 cases of bacillary dysentery were reported in western Samoa. During the period December 27, 1925, to March 6, 1926, filariasis and hookworm infection were reported in the same region.

### TRINIDAD (WEST INDIES)

Smallpox (alastrim)—Development of new cases.—Under date of March 16, 1926, smallpox (alastrim) was reported to be spreading in the island of Trinidad. On March 15 two new cases were reported. A total of nine cases developed during the month of February and the first half of March. The first case was in the person of a boy who arrived on a sloop which left Yraga, Venezuela, January 22, 1926. The history of the case showed that the patient was taken ill with fever January 10 and developed a rash January 14, 1926. The cases were stated to have been segregated and the contacts vaccinated, but the disease appeared to be slowly spreading.

Precautions against spread by travel.—Tourist steamers refuse to take on passengers from Trinidad, but regular passenger steamships receive passengers who have been vaccinated.

#### UNION OF SOUTH AFRICA

Influenza—Durban.—Under date of February 26, 1926, an outbreak of influenza, of a rather severe type, was reported at Durban, Natal, Union of South Africa, with about 50 cases and 2 deaths with pneumonic complications. The outbreak occurred among prisoners in the Durban jail.

Typhus fever—January, 1926.—During the month of January, 1926, 89 cases of typhus fever with 18 deaths, occurring among the colored population, and 5 cases occurring among the European population, were notified in the Union of South Africa. For distribution according to locality see page 695.

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

#### Reports Received During Week Ended April 9, 1926 1

#### CHOLERA

Place	Date	Cases	Deaths	Remarks
India				Jan. 17-23, 1926; Cases, 2,499 deaths, 1,480.
Calcutta Rangoon Rhillming Telender	Feb. 7-13	28 4	27 2	deaths, 1,480.
Philippine Islands: Manila	Feb. 7-13	2	3	
Province— Batangas	Jan. 24-30	3	3	
BulacanLaguna Laguna Pampanga		1 4	1 4 1	·
Siam: Bangkok	Feb. 7-13	19	13	
	PLA	GUE		
Brazil:				
Sao Paulo British East Africa: Kenya—	Reported Mar. 25.	. 4	1	
KisumuCeylon:	Jan. 31-Feb. 6	2		
Colombo	Feb. 6-13	1	]	Feb. 14-20, 1926: Two plagt rodents.
India Rangoon	Jan. 31-Feb. 13	16	15	Jan. 17-23, 1926: Cases, 2,78 deaths, 2,248.
Java: Batavia	Feb. 6-12	61	60	Province.
Cheribon	Dec. 20-26 Jan. 3-16		43	
Koeninigan Pekalongan	Dec. 27-Jan. 16		114 41	
Surabaya	Jan. 17–23 Dec. 20–26	5	5	
Tegal Persia:	1	1	2	
Teheran	Oct. 21-Nov. 21		12	January, 1926: Cases, 196; death
				67. Reported in 26 localities
Siam: Bangkok	Feb. 7-13	5	ě	
Syria: Beirut	Jan. 21-31	1		•
	SMA	LPOX		
Algeria:		Ι .	1	
Algiers Amblu: Aden	Feb. 21-28 Feb. 21-27			One imported.
Brazil: Para Canada:	Feb. 21-Mar. 6	1	1	
Alberta Manitoba	Mar. 14-20	1		
Ontario	do	4 7		-
North Bay Sarnia	Feb. 14-Mar. 13 Mar. 14-20.	4		-}
China:				1
Amoy Chungking	Jan. 31-Feb. 13 Feb. 6-20		6	Present.
Hankow	Feb. 14-20	1		
Changehun Mukden	Feb. 21-27	1 2		Railway line.
Swatow	Feb. 14-20	2		Do. Prevalent.
Egypt: Alexandria	1	1		
17		., .		-1

¹ From medical officers of the Public Health Service, American consuls, and other sources.

### Reports Received During Week Ended April 9, 1926-Continued

#### SMALLPOX-Continued

Mulang	Place	Date	Cases	Deaths	Remarks					
Calcutta.     Feb. 7-13.     61     45     deaths, 1,104.       Karachi     Feb 14-20.     21     5       Java:     Mar. 31-Feb. 18.     24     6       Malang     Jan. 10-16.     2     2       Surabaya.     Jan. 17-23.     35     5       Malta.     Feb. 1-28, 1926: Cases, 5.     Toto Oct. 1, 1925-Mar. 12, 192       Mexico:     Aguascalientes     Mar. 14-20.     1       Aguascalientes     Mar. 16-22.     1     1       San Luis Potosi.     Feb. 28-Mar. 20.     20       Tampico.     Mar. 1-10.     2     Varioloid.       Persia:     Oct. 21-Nov. 21.     203       Do.     Nov. 22-Dec. 22.     107       Portugal:     Lisbon     Feb. 1-28.     6       Siam:     Bangkok.     Feb. 6-13.     14     5	England and Wales  If ull  Newcastle-on-Tyne  Nottingham	Mar. 6-13 Feb. 28-Mar. 13 Feb. 21-27	1 8 1	1	Jan. 17-23, 1926; Cases, 5.259					
Malang	Calcutta Karachi Rangoon	Feb 14-20	21	5	deaths, 1,104.					
Mexico:         Mar. 14-20.         1 and 16-22.         1 and 16-22.         1 and 16-22.         1 and 16-22.         1 and 16-22.         1 and 16-22.         1 and 16-22.         1 and 16-22.         1 and 16-22.         1 and 16-22.         1 and 16-22.         1 and 16-22.         1 and 16-22.         1 and 16-22.         1 and 16-22.         20 and 12.         Varioloid.           Persia:         Teberan.         Oct. 21-Nov. 21.         203.         203.         Varioloid.           Portugal:         Lisbon.         Feb. 1-28.         6         6           Siam:         Feb. 6-13.         14         5	Malang Surabaya			2 5	Feb. 1-28, 1926: Cases, 5. Total,					
Portugal:       Lisbon       6         Siam:       Feb. 1-28       6         Bangkok       14       5	Aguascalientes	Mar. 16-22 Feb. 28-Mar. 20 Mar. 1-10 Oct. 21-Nov. 21	2	20 20 203	Cases, 79.					
TYPHUS FEVER	Portugal: Lisbon Siam:	Feb. 1-28	14	6	,					
b contract the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the contract to the	TYPHUS FEVER									

3. (Colored.)
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### Reports Received from December 26, 1925, to April 2, 1926 1

### CHOLERA

Place	Date	Cases	Deaths	Remarks
ChosenFrench Settlements in India	October-Novem- ber, 1925. Dec. 1-31	12 880	5 712	
India Calcutta Do. Do.	Nov. 1-28 Dec. 6-26 Dec. 27-Jan. 16	101	89 54 41	Oct. 18, 1925, to Jan. 2, 1926; Cases, 21,316; deaths, 12,371, Jan. 3-16, 1926; Cases, 7,185; deaths, 3,993.
Do	Jan. 24-Feb. 6 Nov. 15-Jan. 2 Jan. 3-Feb. 13 Nov. 8-Dec. 5 Jan. 24-30	75 174 75 4	63 70 46 4	, •

¹ From medical officers of the Public Health Service, American consuls, and other sources.

# Reports Received from December 26, 1925, to April 2, 1926—Continued CHOLERA—Continued

Place	Date	Cases	Deaths	Remarks
Indo-China				September, 1925 Cases, 9; deaths,
Province-	Comt 1 20	2	2	<ol> <li>September, 1924: Cases, 7; deaths, 4. (European cases, 2.)</li> </ol>
Annam	Sept. 1-30do	5	3	deaths, 4. (Editopean cases, 2.)
Cochin China Saigon	Jan. 4-17	2	2	Including 100 square kilometers
Tonkin	September, 1925	2		of surrounding country.
Japan	Aug. 30-Oct. 17	409		
_ Do	Oct. 25-Dec. 26	113		
Philippine Islands: • Manila	Nov. 9-Jan. 3	15	10	
Do	Jan. 4-Feb. 6		23	*
Province—		00	0.5	
Bataan Do	Nov. 30-Dec. 26 Jan. 2-16	29 1	25 1	
Bulacan	Oct. 18-Nov. 7	92	64	
Do	Nov. 23-Dec. 31	200	88	
Laguna	Jan. 2–16 Nov. 23–Dec. 26	5 18	5 14	
Nueva Ecija	do	6	2	
Pampanga	Nov 1-7 Nov. 23-Dec. 31	112	1	•
Do Do	Jan. 2-23	113 27	85 24	
Rizal	Sept, 27-Nov. 21 Dec. 21-30	75	21	
Romblon	Dec. 21-30	14	11	
Russia Rombion	Dec. 7-13	23 7	12	
RussiaDo	May-June July-August	4		
Siam:		100	68	
Bangkok	Oct. 4-Nov. 14 Nov. 22-Dec. 26	108 270	149	
Do	Nov. 22-Dec. 26 Dec. 27-Feb. 6	168	112	
				ł company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the comp
On vessel:	Oct 2		1	Amirral at Panalvale Ciam
On vessel: Steamship	Oct. 3	9		Arrived at Bangkok, Siam Cases in coolie passengers.
On vessel:	Oct. 3	9		Arrived at Bangkok, Siam Cases in coolie passengers.
On vessel:		GUE		Arrived at Bangkok, Siam Cases in coolie passengers.
On vesse: Steamship Argentina	PLA	GUE		Cases in coolie passengers.
On vesse: Steamship  Argentina Buenos Aires	PLA			Cases in coolie passengers.  Jan 24-30, 1926: 6 cases, occur ring in interior Provinces o
On vesse: Steamship Argentina	PLA Jan. 24-30 Nov. 8-Dec. 27	GUE	1	Cases in coolie passengers.
On vesse!: Steamship  Argentina Buenos Aires Brazi!: Bahia Do.	PLA  Jan. 24-30  Nov 8-Dec. 27 Dec. 28-Jan. 30	GUE	1 2	Jan 24-30, 1926: 6 cases, occur ring in interior Provinces o
Argentina Buenos Aires Brazil: Bahia Do Santos British East Africa:	PLA Jan. 24-30 Nov. 8-Dec. 27	GUE	1 2	Cases in coolie passengers.  Jan 24-30, 1926: 6 cases, occur ring in interior Provinces o
Argentina Buenos Aires Brazil: Bahia Do. Santos British East Africa: Kenya— Kisumu	PLA  Jan. 24-30  Nov 8-Dec. 27  Dec. 28-Jan. 30  Dec. 8-21  Nov. 22-Dec. 5	.GUE	1 2 2	Cases in coolie passengers.  Jan 24-30, 1926: 6 cases, occurring in interior Provinces o
Argentina Buenos Aires Brazil: Bahia Do Santos British East Africa:	Jan. 24-30	GUE 1 3 4	. 1 2 2 2	Cases in coolie passengers.  Jan 24-30, 1926: 6 cases, occur ring in interior Provinces o
Argentina Buenos Aires Brazil: Bahia Do. Santos British East Africa: Kenya- Kisumu Ugauda Protectorate	PLA  Jan. 24-30  Nov 8-Dec. 27  Dec. 28-Jan. 30  Dec. 8-21  Nov. 22-Dec. 5	.GUE	1 2 2	Cases in coolie passengers.  Jan 24-30, 1926: 6 cases, occur ring in interior Provinces o
On vesse: Steamship  Argentina Buenos Aires Brazii: Bahia Doo Santos British East Africa: Kenya Kusumu Uganda Protectorate Canary Islands: La Laguna	Jan. 24-30	GUE  1 3 4 1 338 338	1 2 2	Cases in coolie passengers.  Jan 24-30, 1926: 6 cases, occur ring in interior Provinces o
Argentina Buenos Aires Brazil: Bahia Do. Santos British East Africa: Kenya- Uganda Protectorate Canary Islands: La Laguna, Las Palmas	Jan. 24-30	GUE 1 3 4 338 3 1	1 2 2 308	Cases in coolie passengers.  Jan 24-30, 1926: 6 cases, occur ring in interior Provinces o
Argentina Buenos Aires Brazil: Bahia Do. Santos British East Africa: Kenya- Uganda Protectorate Canary Islands: La Laguna, Las Palmas	Jan. 24-30	GUE 1 3 4 338 31 1 1 1 1	1 2 2 308	Cases in coolie passengers.  Jan 24-30, 1926: 6 cases, occur ring in interior Provinces o
Argentina	Jan. 24-30	GUE 1 3 4 338 3 1	1 2 2 308	Cases in coolie passengers.  Jan 24-30, 1926: 6 cases, occur ring in interior Provinces o
Argentina Buenos Aires Brazii: Bahia Do. Suntos British East Africa: Kenya— Kisumu Uganda Protectorate Canary Islands: La Laguna Lus Pulmas Do. Santa Cruz de Tenerlife Do Celebes:	PLA  Jan. 24-30  Nov 8-Dec. 27  Dec. 28-Jan. 30  Dec. 8-21  Nov. 22-Dec. 5  September-November.  Dec. 24  Jan. 7  Dec. 18-27  Dec. 23-Feb. 1	3 4 338 3 1 1 3 3 3	1 2 2 2 308 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Jan 24-30, 1926: 6 cases, occur ring in interior Provinces o Salta and Santa Fe.
Argentina Buenos Aires Brazil: Bahia Do. Santos British East Africa: Kenya Kisumu. Uganda Protectorate. Canary Islands: La Laguna. Las Pulmas Do. Santa Cruz de Tenerlite Do. Celebes: Makassar	PLA  Jan. 24-30  Nov 8-Dec. 27  Dec. 28-Jan. 30  Dec. 8-21  Nov. 22-Dec. 5  September-November.  Dec. 24  do  Jan. 7  Dec. 18-27  Dec. 28-Feb. 1  Dec. 29-Jan. 26	3 4 338 3 1 1 3 3 3 9	1 2 2 308	Cases in coolie passengers.  Jan 24-30, 1926: 6 cases, occur ring in interior Provinces o
Argentina Buenos Aires Brazil: Bahia Do Santos British East Africa: Kenya Kisumu Uganda Protectorate Canary Islands: La Laguna Lus Palmas Do Santa Cruz de Teneriile Do Celebes: Makassar Ceylon: Colombo	PLA  Jan. 24-30  Nov 8-Dec. 27  Dec. 28-Jan. 30  Dec. 8-21  Nov. 22-Dec. 5  September-November.  Dec. 24  do  Jan. 7  Dec. 18-27  Dec. 28-Feb. 1  Dec. 29-Jan. 26	3 4 338 3 1 1 3 3 3 9	1 2 2 308 2 308 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Jan 24-30, 1926: 6 cases, occurring in interior Provinces of Salta and Santa Fe.
Argentina Buenos Aires Brazil: Bahia Do Santos British East Africa: Kenya Kisumu Uganda Protectorate Canary Islands: La Laguna Lus Pulmas Do Santa Cruz de Teneriile Do Celebes: Makassar Ceylon: Colombo	PLA  Jan. 24-30  Nov 8-Dec. 27  Dec. 28-Jan. 30  Dec. 8-21  Nov. 22-Dec. 5  September-November.  Dec. 24  do  Jan. 7  Dec. 18-27  Dec. 28-Feb. 1  Dec. 29-Jan. 26	3 4 338 3 1 1 3 3 3 9	1 2 2 308 2 308 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Jan 24-30, 1926: 6 cases, occur ring in interior Provinces o Salta and Santa Fe.  Netherlands East Indies.  1 plague rodent.
Argentina Buenos Aires Brazii: Bahia Do. Santos British East Africa: Kenya- Kisumu Uganda Protectorate Canary Islands: La Equina Las Palmas Do. Santa Cruz de Teneriife Do. Celebes: Makassar Ceylon:	PLA  Jan. 24-30  Nov 8-Dec. 27  Dec. 28-Jan. 30  Dec. 8-21  Nov. 22-Dec. 5  September-November.  Dec. 24  Jan. 7  Dec. 18-27  Dec. 23-Feb. 1	3 4 338 3 1 1 3 3 3 9	1 2 2 308 2 308 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Jan 24-30, 1926: 6 cases, occur ring in interior Provinces o Salta and Santa Fe.  Netherlands East Indies.
Argentina Buenos Aires Brazil: Bahia Do. Suntos British East Africa: Kenya— Kisumu Uganda Protectorate Canary Islands: La Laguna Las Pulmas Do. Santa Cruz de Teneriite Do Celebes: Makassar Ceylon: Colombo Do. Do. Do. China: Nanking	Jan. 24-30	34 338 31 1338 39 32	1 2 2 308 2 308 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Jan 24-30, 1926: 6 cases, occur ring in interior Provinces o Salta and Santa Fe.  Netherlands East Indies.  1 plague rodent.
Argentina	Jan. 24-30	GUE  1 34 338 31 11 338 9 3 2	1 2 2 308 2 308 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Jan 24-30, 1926: 6 cases, occur ring in interior Provinces o Salta and Santa Fe.  Netherlands East Indies. 1 plague rodent. Do.
Argentina Buenos Aires Brazil: Bahia Do. Santos British East Africa: Kenya- Kisumu Uganda Protectorate Canary Islands: La Laguna Las Palmas Do. Santo Cruz de Teneriife Do. Celebes: Makassar Ceylon: Colombo Do. China: Nanking Ecuador: Eloy Alfaro	Jan. 24-30	338 31 11 338 3 3 2 2	1 2 2 2 308 2 1 1 9 3 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Jan 24-30, 1926: 6 cases, occur ring in interior Provinces o Salta and Santa Fe.  Netherlands East Indies. 1 plague rodent. Do.
Argentina	Jan. 24-30	338 31 11 338 3 3 2 2	1 2 2 2 308 2 1 1 9 3 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Jan 24-30, 1926: 6 cases, occur ring in interior Provinces o Salta and Santa Fe.  Netherlands East Indies.  1 plague rodent.  Do.  Prevalent.
Argentina Buenos Aires Brazil: Bahia Do. Suntos British East Africa: Kenya Kisumu. Uganda Protectorate Canary Islands: La Laguna. Las Paimas Do. Sunta Cruz de Teneriite Do Celebes: Makassar Ceylon: Colombo Do China: Nanking Ecuador: Eloy Alfaro Guayaquii	PLA  Jan. 24-30  Nov 8-Dec. 27 Dec. 28-Jan. 30 Dec. 8-21  Nov. 22-Dec. 5 September-November.  Dec. 24 do Jan. 7 Dec. 18-27 Dec. 18-27 Dec. 28-Feb. 1 Dec. 28-Jan. 26  Nov. 15-Dec. 5 Dec. 27-Jan. 16 Jan. 21-30  Nov. 15-Dec. 31 Jan. 1-15 Nov. 1-Dec. 31	34 338 31 11 338 3 3 12 3 3 3 3 3 3 3 1 1 1 3 3 2	1 2 2 308 2 1 1	Cases in coolie passengers.  Jan 24-30, 1926: 6 cases, occurring in interior Provinces of Salta and Santa Fe.  Netherlands East Indies. 1 plague rodent. Do. Prevalent.  Rats taken, Nov. 1-Dec. 31, 1925,
Argentina Buenos Aires Brazil: Bahia Do. Suntos British East Africa: Kenya Kisumu. Uganda Protectorate Canary Islands: La Laguna. Las Paimas Do. Sunta Cruz de Teneriite Do Celebes: Makassar Ceylon: Colombo Do China: Nanking Ecuador: Eloy Alfaro Guayaquii	PLA  Jan. 24-30  Nov 8-Dec. 27 Dec. 28-Jan. 30 Dec. 8-21  Nov. 22-Dec. 5 September-November.  Dec. 24 do Jan. 7 Dec. 18-27 Dec. 18-27 Dec. 28-Feb. 1 Dec. 28-Jan. 26  Nov. 15-Dec. 5 Dec. 27-Jan. 16 Jan. 21-30  Nov. 15-Dec. 31 Jan. 1-15 Nov. 1-Dec. 31	34 338 31 11 338 3 3 12 3 3 3 3 3 3 3 1 1 1 3 3 2	1 2 2 308 2 1 1	Cases in coolie passengers.  Jan 24-30, 1926: 6 cases, occurring in interior Provinces of Salta and Santa Fe.  Netherlands East Indies. 1 plague rodent. Do. Prevalent.  Rats taken, Nov. 1-Dec. 31, 1925,
Argentina	Jan. 24-30	338 338 31 11 33 3 9 3 2	1 2 2 308 2 1 1	Cases in coolie passengers.  Jan 24-30, 1926: 6 cases, occurring in interior Provinces of Salta and Santa Fe.  Netherlands East Indies. 1 plague rodent. Do. Prevalent.  Rats taken, Nov. 1-Dec. 31, 1925,
Argentina Buenos Aires Brazii: Bahia Do. Santos British East Africa: Kenya— Kisumu Uganda Protectorate Canary Islands: La Laguna Lus Pulmas Do. Santa Cruz de Teneriite Do Celebes: Makassar Ceylon: Colombo Do. China: Nanking Ecuador: Eloy Alfaro Guayaquii Do.	Jan. 24-30	338 338 31 11 33 3 9 3 2	1 2 2 2 308 2 1 1	Jan 24-30, 1926: 6 cases, occur ring in interior Provinces of Salta and Santa Fe.  Netherlands East Indies.  1 plague rodent.  Do.  Prevalent.

### Reports Received from December 26, 1925, to April 2, 1926—Continued

#### PLAGUE-Continued

Place	Date	Cases	Deaths	Remarks
Greece: Athens	Nov. 1-30	18 14 1 4	4 3	Including Piræus. On island of Crete.
Paauilo				Jan. 29, 1926: Plague-infected rat found in vicinity.
India	Dec. 6-12. Jnn. 3-0. Dec. 6-12. Jnn. 3-0. Dec. 6-12. Nov. 1-Dec. 19. Oct. 25-Nov. 7 Nov. 15-21 Dec 20-28. Jan. 3-9. Jan. 17-23. Oct. 25-Dec. 26. Dec. 27-Jan. 30.		1 2 1 3 41 22 64 83 73 15	Oct. 18, 1925, to Jan. 2, 1926; Cases, 15,135; deaths, 10,677. Jan. 3-16, 1926; Cases, 4,680; deaths, 2,625.
Province— Cambodia Cochin China  Iraq. Bagdad	Sept. 1-30 September-Octo- ber. Dec. 13-Jan 2	11 14 7	11 12 3	25; deaths, 23.
Java:	Jan. 10-30	12 94	8 89	Depress
Batavia.  Do.  Do.  Cheribon.  Do.	Nov. 15-Dec. 19	315 260	297 250	Province.
Do Djokjakarta Kediri Pekalongan	Oct. 20-Nov. 9 Dec. 7 Sept. 27-Oct. 17		42	Epidemic in 1 locality. Do.
Do	Oct. 20 Oct. 11-Dec. 26 Dec. 27-Jan. 9 Sept. 27-Oct. 17 Nov. 8-Dec. 26	59 16 6	131 59 16 6 31	· Do.
Madagascar Province— Ambositra Do Itasy.	Dec. 16-31 Jan. 1-15 Sept. 16-Oct. 31 Nov. 16-Dec. 16	9 2 20 34	7 2 20 34	Nov 1-December, 1925: Cases, 632; deaths, 503. Jan. 1-15, 1926: Cases, 161; deaths, 151. Bubonic, pneumonic, and sep- ticemic.
Do	Jan. I-15 Sept. 16-Dcc. 31	29 49 15 368 152 111	29 48 15 341 143 100	
Fort Dauphin Tamatave (port) Do. Tananarive Do.	Sept. 16-Nov. 30 Sept. 10-30 Oct. 16-Nov. 30 Sept. 16-30 Nov. 1-30 Jan. 1-15	6 3 9 2 11	3 2 9 2 11	
Do	Jan. 1-15 Sept. 20-Dec. 26. Oct 1-Nov. 30 do Oct. 1-31 August-November	21 3 4 2 559	4 18 2 1	
Nigeria Peru: Huacho Lima	Jan. 26	15	410	Port 60 miles north of Callao. In hospital. Some cases in Prov-
MollendoRussia. Do. Senegal	do May-June July-October	67 166 45	25	ince. 12 or 15 cases reported unoffi- cially.

#### Reports Received from December 26, 1925, to April 2, 1926—Continued

#### PLAGUE--Continued

Place	Date	Cases	Deaths	Remarks
Siam	Aug. 23-Dec. 26 Nov. 15-28	65	53	
Bangkok	Nov. 15-28 Jan. 3-30	3	3	
Do Straits Settlements:	Jun. 3-30	38	33	
Singapore	Nov. 1-Dec. 5	8	8	
D0	Jan. 3-9	2	2	
Syria: Beirut	Nov. 11-20	1		
Union of South Africa: Cape Province—				
Kimberley district	Dec. 13-19	1		There
Middle burg district Steynsburg district	Dec. 6-12 Nov. 15-21	î		European. Native. On farm.
Orange Free State	1			
Boshof district	Nov. 29-Dec. 5	1	1 1	In native.
Bot naville district On vessel:	Dec. 6-12		1	Native. On farm.
Steamship Cid				Jan. 29, 1926. At Buenaventura, Colombia. Rat was killed
-				Colombia. Rat was killed while jumping ashore from vessel.
	. SMAI	LPOX	in a second	
Algeria:				
Algiers Do	Nov. 21-Dec. 31 Jan. 1-10	177 64		
Do	Jan. 21-Feb. 10	51		
Arabia:	1			
Aden	Nov. 29-Dec. 5 Jan. 10-Feb. 20	1 6	1	Imported.
Argentina:	Jan. 10-reb. 20	, ,	1	
Rosario	October		. 1	
Australia:	-	1	}	
Queensland— Brisbane	Dec. 9-15	1		
Bahamas	Feb. 23			In Nassau district. Stated to
Brazil:	Dec 1 21		1	have been imported.
Manaos Do	Dec. 1-31 Jan. 31-Feb. 20		12	
Dara		25	5	
Rio de Janeiro	1 NOV 1+28	134		
Do	Dec. 6-26 Dec. 27-Feb. 6	65 131	100	
British East Africa:	- Doc. 21-1 CD. 0	101	100	
Kenya—		l		
Mombasa Do	Nov. 15-Dec. 19 Dec. 27-Jan 2 Sept. 1-Oct. 31	14	6	From mainland.
Uganda Protectorate	Sept. 1-Oct. 31	8	4	From mamand.
Uganda Protectorate British South Africa:	1	ł	1	
Northern Rhodesia Southern Rhodesia	Jan. 5-11 Nov. 13-Dec. 23	2		
Canada	Nov. 13-Dec. 23	0		Sept. 13-Jan. 2: In 7 Provinces,
				186 cases. Jan. 3-Feb. 27, 1926: Cases, 277. From Drumbeller, vicinity of
Alberta.	Jan. 10-Mar. 13			Cases, 277.
Calgary British Columbia—	Dec. 13-19	1		Calgary.
Vancouver	Jan. 4-10	1		Cangary.
Manitoba	Jan. 4-10 Jan. 3-Feb. 27	26		
Winnipeg	Dec. 13-19	2		
New Brunswick—	1	11		
Northumberland	Dec. 6-13	1		
Ontario.	Dec. 6-13 December, 1925 Jan. 1-Feb 13	32	1	
Do. Do.	Feb 21-27	103 19		
Do	_i Mar. 7-13	19		
Admaston Alice and Fraser	Jan. 1-Feb. 1	16		Township,
Alice and Fraser	_ reb. 1-28	-6		Do. Do.
King	do	7		Do. Do.
		, .		,
Belleville		4		
Belleville Kingston Kitchener	do	4 1 26		

# Reports Received from December 26, 1925, to April 2, 1926—Continued SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
Ontario—Continued				
Ontario—Continued North Bay	do	3		
Ottawa	Dec. 6-12	2		
Do	Jan. 3-Feb. 6	2	<b> </b>	1
Toronto Do	Dec. 27-Jan. 2 Jan. 3-Feb. 28	1 25	{	
Trenton	dodo	15		
Saskatchewan	Jan. 3-Feb. 13	39		
Do	Feb. 21-Mar. 13	13		
Moose Jaw	Jan. 24-Mar. 13	3		
Regina Saskatoon	Feb. 14-20	1		
Ceylon:		-	1	
Colombo	Dec. 6-12 Jan. 3-Feb. 6	1 5		Port case.
Chile:	Jan. 9-160. 0			
Punta Arenas	Dec. 13-26 Dec. 27-Jan. 2		8	
Do China:	Dec. 27-Jan. 2	¦	4	
Атоу	Oct. 25-Dec. 19	l	1	
Do	Jan 10-30	l	3	
Antung Chungking	Dec. 7-20 Nov. 15-Feb. 6 Nov. 1-Feb. 6	2		<b>n</b>
Foochow	Nov. 15-Feb. 6			Present. Do.
Hankow	NOV 14-1100, 26	4		D0.
Do	Jan. 10-16	î		
Hongkong	Jan. 10–16 Nov. 22–Dec. 26 Jan. 3–Feb. 6	4		
Do	Jan. 3-Feb. 6	7	3	
Manchuria— An-shan	Dec. 6-12	1		
Do	Jan. 10-Feb. 13	6		South Manchurian Railway.
Changchun	Jan. 10-Feb. 20	19		Do.
Changchun Dairen Do	Jan. 10-Feb. 13 Jan. 10-Feb. 20 Oct. 19-Dec. 27 Dec. 28-Jan. 31 Jan. 17-23	73	15	
Fushun	Dec. 28-Jan. 31	40 1	11	Do.
Harbin		2		150.
Kai-yuan	Jan. 10-30 Jan. 31-Feb. 20 Jan. 17-23	4		Do.
Kungehuling	Jan. 31-Feb. 20	2		_
Lio-yang	Oct. 24-Nov. 15	1	[	Do. Do.
Mukden Do	Jan. 24-Feb. 13	2		Do.
Tieh-ling	do	2		
Nanking.	Nov. 21-Dec. 26 Dec. 27-Feb. 13			Present.
Do.	Oct. 25-Jan. 2	37	36	Do.
Shanghai Do	Jan. 3-Feb. 20	46	94	Cases, foreign only.
Swatow	Nov 22-Feb 13			Prevalent.
Tientsin	Nov. 1-Dec. 19 Jan. 23-30.	2 1		
Chosen:	Jan. 20-00			
Seishin	Jan. 1-31	5	2	
Egypt:	Dog 2-21	5	2	
AlexandriaDo	Dec. 3-31	2	î	
Do	Jan. 29-Feb. 11	4	ĩ	
Esthonia.				November, 1925: Cases 3.
France	T OF 91		9	September-December, 1925: Cases, 253.
Havre	Jan. 25-31 September, Dec-	38	5	Cases, 200.
doid Odase	ember.			
Great Britain:				27 De- 00 1005: Georg 700
England and Wales	The 97-Ten 22	29		Nov. 15-Dec. 26, 1925: Cases, 790. Dec. 27-Mar. 6, 1926: Cases 3,902.
Hull Do	Dec. 27–Jan. 23 Feb. 7–27	7		Dec.21-11111: 0, 1020: 0 0000 0,002
Leeds	Jan. 14-Feb. 6	4		•
' London	Jan. 14-Feb. 6 Jan. 31-Feb. 6		1	
Nottingham	Nov. 22-Dec. 26 Dec. 27-Jan. 9	9		
Do	Nov 22-Dec 12	2 7 3		
Sheffield	Nov. 22-Dec. 12 Dec. 20-26. Dec. 27-Feb. 6			
	Dec. 27-Feb. 6	12		
Do		6	1	1
Newcastle-on-Tyne	Nov. 29-Dec. 19			
	Nov. 29-Dec. 19 Dec. 27-Feb. 27 Feb. 28-Mar. 6	24		

### Reports Received from December 26, 1925, to April 2, 1926—Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Greece				Oct. 1-31, 1925; Cases, 16.
Athens	Nov. 1-Dec. 31	18	i	
Do	Jan. 1-Feb. 28	50	3	
Saloniki	Feb. 16-22		1	0 1 40 To 00 400F G
India	-5			Oct. 18-Dec. 26, 1925; Cases, 19,472; deaths, 4,440. Dec. 27, 1925-Jan. 16, 1926; Cases,
Bombay	Nov. 8-Dec. 26 Dec. 27-Feb. 13	26 101	20 53	19,472; Utulis, 4,440. Dec. 27,
DoCalcutta	Nov. 29-Dec. 26	48	25	18,016; deaths, 7,378.
Do	Dec. 27-Feb. 6	219	125	20,020, 4040,000, 1,010.
Karachi	Nov. 1-21	23		
Do	Nov. 29-Dec. 5	4	2	
Do	Dec. 13-19	3		
Do	Dec. 29-Feb. 13	38	15	
Madras	Jan. 24-30 Oct. 25-Nov. 28	3	1	
Rangoon Do Do	Dec 6-26	4	i	
Do	Dec. 6-26 Dec. 27-Jan. 16	13	l î	
Do	Jan. 24-30	6		
Indo-China				September-October, 1925: Cases,
	i	}		September-October, 1925: Cases, 204, deaths, 62. September, 1924: Cases, 78; deaths, 22.
Province—		١	l	1924: Cases, 78; deaths, 22.
Annam	Sept. 1-Oct 31	90	23	September, 1924: Cases, 8;
Cambodia	30	72	30	deaths, 2. September, 1924; Cases, 16;
Cambodia	do	12	30	September, 1924: Cases, 16; deaths, 1.
Cochin China	do	61	30	September, 1921: Cases, 43;
Saigon	Dec. 21-27	2	ľ	deaths, 19.
Do	Jan. 1-Feb. 7	6		Including 100 kilometers of sur-
Tonkin	Dec. 2-Jan. 2	22		rounding country.
Iraq				Sept. 6-Oct. 17, 1925: Cases, 81;
Bagdad Do	Nov. 1-Dec. 26 Dec. 27-Jan. 30	19	15	deaths, 40.
3/0,	- Dec. 27-Jan. 30	11	4	Aug 8 1005: Ten D 1000: Claren
Italy Catania	Feb. 15-28	1	1	Aug. 2, 1925; Jan. 2, 1926; Cases, 52. Jan. 3-16/1926. Cases, 12.
Genoa	Jan. 21-Feb. 10	4		02. San. 5-10/ 1020. Cases, 12.
Rome	Oct. 12-25	i	1	
Jamaica				Nov. 29-Dec 26, 1925: Cases, 95. Dec. 27, 1925-Feb. 27, 1926: Cases, 260. Reported as alas-
				Dec. 27, 1925-Feb. 27, 1926;
	1	1	1	Cases, 260. Reported as alas-
	27	40	İ	trim.
Kingston Do	Nov. 29-Dec. 26 Dec. 27-Jan. 30	43 48		Reported as alastrim.
Japan:	_ Dec. 21-Jan. 50	40		1 20
Nagasaki	Feb. 15-21	1		1
Taiwan	Nov. 11-Dec. 10	3		
Taiwan Yokohama	Nov. 11-Dec. 10 Dec. 14-20 Feb. 23	1		į
D0	_ Feb. 23	7		1
Java:	0.4.00	Ι.	1	
Batavia	Oct 24-30	1 7		1
Do Buitenzorg	Nov. 14-Dec. 25 Nov. 29-Dec. 5	1 1		4
Cheribon	Nov 8-Dec 12	2		1
Kraksaan	l Oct. 11-17	11		4
Malang	Oct. 11-Jan. 2 Oct. 4-17	1 3		
North Bantam	_  Oct. 4-17	4		
Pekalongan	. i Oct. 25-31	1 1	}	
Probelingo Surabaya	Oct. 11-17 Oct. 11-Dec. 28 Dec. 27-Jan. 16	1		1
Surapaya	Oct 11-Dec. 26	633 66	104	
Do	Oct. 11-17:	1	22	4
Tegal	Oct. 4-10	9	1	1
Tegal Latvia	_	1		December, 1925: Cases, 3.
Maita	_  Nov. 1-Dec. 21	21	3	
Do	Jan. 1-31	15		
Mexico				July-September, 1925: Deaths,
Aguascalientes	Dec. 13-Jan. 2	4	3	1,157.
Do. Do.	Jan. 3-30. Feb. 14-Mar. 6	ļ	3 7 7	t .
Durange.	Dec. 1-31		i	1
Do	Jan. 1-31		2	1
Guadalajara	Dec. 27-Mar. 8		12	1
Guadalajara Mexico City	Jan. 1-31 Dec. 27-Mar. 8 Nov. 28-Dec. 5	1	1	Including municipalities in Fed-
		1	1	eral District.
_	ł .	₹		
Do.	Tom 9 Pak #	4		Do.
San Luis Potosi	Tom 9 Pak #	4	83	Do.
San Luis Potosi	Tom 9 Pak #	1	33 1	Do.
San Luis Potosi	Jan. 3-Feb. 5. Jan. 17-Feb. 27. Dec. 21-Jan. 2. Jan. 2-Feb. 28.	1 6		Do

### Reports Received from December 26, 1925, to April 2, 1926—Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Netherlands: The Hague Nigeria	Jan. 30-Feb. 6	1	1	August-November, 1925: Cases,
Palestine: Hebron Tiberias	Jan. 26-Feb. 1 Feb. 9-15	2 1		347; deaths, C.
Persia: Teheran Peru:	July 23-Oct. 22		465	
ArequipaPolandPortugal:	Oct. 1-Dec. 31		2	Nov. 1-28, 1925: Cases, 9.
Lisbon	Oct. 4-31 Nov. 16-Dec. 27	124	60	
Do Do Oporto	Nov. 14-Dec. 26 Dec. 27-Feb. 13	187 87	23 3	,
Do Rumania	Nov. 22-Dec. 19 Dec 27-Feb. 13 August-October	2 2 3	1	
Russia. Do	July-October	1, 563		May-June, 1925 Cases, 2,333.  July 12-Sept. 5, 1925: Cases, 21;
Bangkok	Dec. 20–25 Dec. 26–Feb. 6	3 37	1 12	deaths, 6.
Sierra Leone: Konno district	Dec. 16-31	5		
Madrid Do	Year 1925 Jan. 1-31 Nov. 29-Dec. 5		18 1 2	
Malaga Do Valencia	1 Dec 27-Jan. 2	i	1	
Do Do Do	Dec. 20-26 Dec. 27-Jan. 2 Jan. 10-Feb. 6 Feb. 14-Mar. 5	1 9 6		
Straits Settlements: Singapore	Dec. 20-26	1		
Do Switzerland Lucerne	Jan. 10-16 Oct. 1-Nov 30	2 8	1	June 28-Nov. 21, 1925: Cases, 62. Dec. 27, 1925-Jan. 30, 1926:
Zurich Trinidad (West Indies): Port of Spain	Dec. 27-Jan. 2 January-Feb. 20	1 3		Cases, 37.
Tunisia. Tunis				,
Do Do Union of South Africa:	Nov. 21-30 Dec. 11-31 Jan. 1-Feb. 20	10 6	1	•
Cape Province Orange Free State— Kuruman district	Jan. 17-23 Jan. 10-16	l		Outbreaks. Do.
Ladybrand district Transvaal—	Dec. 27-Jan. 2			Do.
Belfast district Germiston district Pretoria district	Jan. 2-9 Dec. 6-12			Do. Do. Outbreaks. In native compound.
On vessel	Feb. 21	2		Mexican steamer Montezuma, at Port of Ensenada, Mexico.
	TYPHU	S FEVE	R	
Algeria:				
Algiers Do	Nov. 1-Dec. 20 Jan. 1-Feb. 28	9		
Argentina: Rosario Bulgaria	Oct. 13-Dec. 31 Sept. 1-Dec. 31 Dec. 25-31	2 50	3	
Sofia Do	Dec. 25-31 Jan. 8-14	1 2		~

### Reports Received from December 26, 1925, to April 2, 1926-Continued

#### TYPHUS FEVER-Continued

III AI OD A BY AND OVALUATION								
Place	Date	Cases	Doaths	Romarks				
Chile				Dec. 15-31, 1925: Cases, 46.				
Achao	Dec. 15-31	1		19ec. 15-51, 1925: Cases, 40.				
Bulnes	do	1						
Chillan	do	24						
Conception	do	6						
Linares Los Angeles	do	1						
Penco	(10	5 2						
San Carlos	do	î						
Talca	do	î						
Valparaiso		4						
Do	Nov. 29-Jan. 2		2					
China:	37							
Antung	Nov. 20-Dec. 27	5	1					
Do_ Hongkong	Jan. 4–10 Dec. 27–Jan. 2	1						
Manchuria—	1566. 21-5411. #	•						
Varbin	Dec. 17-Feb. 4	3						
Czechoslovakia	October-December	145	1					
Egypt:	7 0.14	_						
Alexandria	Jan. 8-14	1 2						
Cairo	Nov. 5-11 Nov. 19-25	í	2					
Port Said Finland	TAOA * TA-50 ******	1		October, 1925: 1 case.				
France	July-October	4		C010001, 1020. 1 0120.				
Germany	Oct. 25-31	1						
Greece				December, 1925: Cases, 12.				
Athens	Nov. 1-30 Jan. 1-Feb. 28	11	2	,				
Do	Jan. 1-Feb. 28 Dec. 29-Jan. 4	38 1	7					
Saloniki Do	Feb. 2-8	i		1				
Hungary	F QU. 2-0			November-December, 1925:				
***************************************			1	Cases, 16.				
Ireland:			1					
Cork County-		_	1					
Cork	Dec. 28-Jan. 1 Jan. 2-8	2 5		1				
Do Dumanway	Nov. 14	ĭ						
Galway County	Oct. 17	î		1				
Latvia	October-December	4		1				
Lithuania				September-October, 1925: Cases,				
30		1		9, deaths, 1. July-September, 1925: Deaths,				
Mexico Aguascalientes	Dec. 14-19	i	-	90.				
Durango	Dec. 1-31	·	. 1	30.				
Do	.l Jan. 1-31		î	1				
Guadalajara	Dec. 8-28							
Do_ Mexico City	Dec. 29-Jan. 4		. 1					
Mexico City	Nov. 22-Dec. 26	145		Including municipalities in Fed-				
	Dec. 27-Mar. 6	79	1	eral District.				
Do San Luis Potosi	Feb. 6-13			20.				
Tampico.	Feb. 6-13 Dec. 21-Jan. 10	1	i i					
Torreon	. November, 1925		.{ 1					
Vera Cruz	Feb. 12		. 1					
MoroccoNorway	August-December.	93		November-December, 1925				
TICIAST				November-December, 1925 Cases, 2.				
Palestine:			1	Canada as				
Gaza	Dec. 18	1						
Jaffa	Dec. 17 Nov. 3-9	1						
Nazareth	Nov. 3-9	1						
Safad Tel-Aviv	Nov. 24-30	1						
Peru:	do	1 1						
Arequipa	October-December		. 3	1				
Poland	October-December	142	16					
Do	Nov. 29-Jan. 2	247	18	1				
Do	Jan. 3-16	190	14					
Rumania			-	July-October, 1925: Cases, 181;				
Russia		1	1	deaths, 22.				
Do.				May-June, 1925: Cases, 10,680. July-October, 1925: Cases, 6,035.				
Turkey:			1	**************************************				
Constantinople	Jan. 24-30	3						
Do	Feb. 9-22	5	1 3	From unofficial sources (Press).				
•								

### Reports Received from December 26, 1925, to April 2, 1926—Continued

#### TYPHUS FEVER-Continued

Place	Date	Cases	Deaths	Remarks
Union of South Africa  Cape Province  Do  Do  Grahamstown  Middleburg district  Natal  Durban  Orange Free State  Do  Bethulia district  Transvaal  Lo  Bloemhof district  Yugoslavia	Jan. 24-30.  Dec. 6-12. Oct. 1-Dec. 5 Jan. 3-16.  Nov. 29-Dec. 5. Dec. 6-12.  do. Oct. 1-31.	2 1 1 1 23 8	5 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	October, 1925: Cases, 88; deaths, 7 (colored). Cases, European, 7. December, 1925: Cases, 78; deaths, 9. Colored: Cases, 73; deaths, 9. Colored. Cases, 73; deaths, 9. Colored. Cases, 78; deaths, 9. Colored. Outbreaks. European. On farm.  Outbreaks Native. On farm.  Outbreaks. On farm. Jan. 1–Feb. 21, 1928. Cases, 81; deaths, 12.
	YELLOW	FEVE	R	
Gold Coast Nigeria Senegal	Sept 1-Dec. 31 August-October November, 1925	3	3 2 2	

# TREASURY DEPARTMENT

# PUBLIC HEALTH REPORTS

ISSUED WEEKLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

Volume 41 :: :: Number 16

APRIL 16 - - 1926

### SPECIAL ARTICLES =

Relative Incidence of Typhoid in Cities, Towns, and Country Directory of Whole-time County Health Officers, 1926



WASHINGTON GOVERNMENT PRINTING OFFICE 1926

#### UNITED STATES PUBLIC HEALTH SERVICE

Hugh S. Cumming, Surgeon General

#### DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg. Gen. B. J. LLOYD, Chief of Division

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# PUBLIC HEALTH REPORTS

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# THE RELATIVE INCIDENCE OF TYPHOID FEVER IN CITIES, TOWNS, AND COUNTRY DISTRICTS OF A SOUTHERN STATE

By Chas. N. Leach, M. D., Alabama State Board of Health, and Kenneth F Maxer, Fassed Assistant Surgeon, United States Public Health Service

Knowing the epidemiology of typhoid fever, one would suspect that its highest incidence would be found in the small town—that unit of population where communal living is most primitive and sanitary safeguards are least in evidence. Figures proving the point have hitherto been lacking, at least so far as concerns the Southern United States.

In connection with the study of typhoid fever in Alabama an attempt has been made to establish its relative incidence in population units of various sizes. Since the situation revealed may well apply to other Southern States with a large rural population, the results of analyses of the data are herewith presented.

#### ANALYSES OF DATA

In Table 1, the cases of typhoid fever which were reported during 1924 and 1925 have been distributed according to their occurrence in the country districts and small unincorporated villages (Group I) and in the incorporated towns and cities of different sized populations (Groups II, III, IV, V, VI, and VII).

In Table 2 the deaths from typhoid which occurred during the same two years have been distributed in like manner.

Table 1.—Distribution of typhoid morbidity in civil divisions of Alabama, 1924 and 1925

- ,		Num-		Number of cases		Case rate per 10,000 population		
Group No.	Division	ber of towns or cities in group	Popula- tion (census of 1920)	1924	1925	1924	1925	Mean rate, 1924 and 1925
		(a)	, (b)	(e)	(d)	(9)	(f)	(g)
1	Country and unincorporated towns		1, 664, 868	667	1,074	4.0	6. 4	5. 2
III IV V VI VII	Incorporated towns and cities: 500-1,000 population 1,000-2,500 population 2,500-5,000 population 5,000-10,000 population 10,000-25,000 population Over 25,000 population	60 56 21 8 7	52, 065 103, 767 85, 636 59, 498 99, 293 283, 047	199 327 171 110 141 167	263 300 138 86 93 190	38. 2 32. 5 20. 0 18. 5 14. 2 5. 9	50. 5 28. 9 16. 1 14. 5 9. 4 6. 7	44. 3 30. 7 18. 0 16. 5 11. 8 6. 3
	Total	155	2, 348, 174	1 1,792	12, 144	7, 6	9. 1	8, 4

¹ Official total of cases for 1924-1,849; for 1925-2,348.

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Table 2.—Distribution of typhoid mortality in civil divisions of Alabama, 19.3/4 and 1925

		Num- ber of	_		Number of deaths		Death rate per 10,000 population	
Group No.	Division	towns or cities in group	Population (census of 1920)	1924	1925	1924	1925	Menn rate 1924 and 1925
		(a)	(p)	(e)	(d)	(e)	(f)	(g)
I	Country and unincorporated towns		1, 664, 868	196	224	1. 2	1. 3	1.3
III IV V VI VII	Incorporated towns and cities: 500-1,000 population 1,000-2,500 population 2,500-5,000 population 5,000-10,000 population 10,000-25,000 population Over 25,000 population	60 56 21 8 7 3	52, 065 103, 767 85, 636 59, 498 99, 293 283, 047	22 37 21 15 23 21	34 36 21 18 16 32	4. 2 3. 6 2. 5 2. 5 2. 3 0. 7	6, 5 3, 5 2, 5 3, 0 1, 6 1, 1	5. 4 3. 5 2. 5 2. 8 2. 0 0. 9
	Total	155	2, 348, 174	1 335	1 381	1. 4	1. 6	1.5

¹ Total figures for the two years are exclusive of 34 deaths in which the location was in doubt and any delayed certificates of death from typhoid fever occurring in 1925 coming in after February, 1926.

The accompanying figure, based upon these tables, presents for graphic comparison the mean morbidity rate and the mean mortality rate for each group.

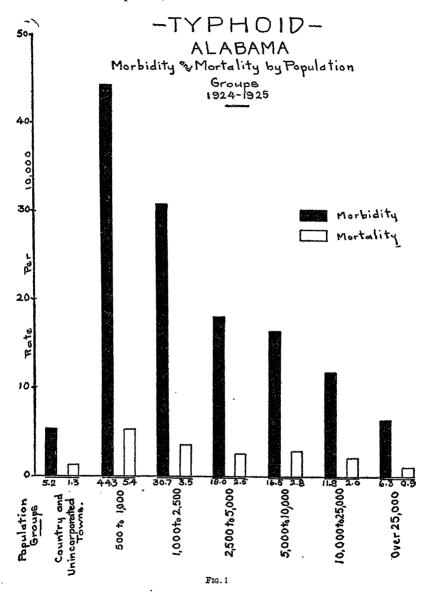
Inspection of the tables and graph reveals the fact that the highest incidence of typhoid, as gauged by both morbidity and mortality, is found in the small incorporated towns having a population of 500 to 1,000 (Group II). In the groups III, IV, V, VI, VII, which include towns of successively larger population, the rates become progressively smaller, reaching a minimum figure in the three largest cities of the State (Group VII). In direct contrast to the high rate of the small towns is the low rate in the country districts and the small unincorporated communities. The rate in this last group (I) is as low as that in the large cities (VII).

While the variation of the rate inversely with the size of the town is more or less according to expectation, the finding that typhoid fever is no more prevalent among persons living in the small unincorporated communities and country districts than among persons living in the relatively well sanitated larger cities will be, to most sanitarians, a rather interesting and new conception. The question immediately occurs whether this difference may not be due to errors in the collection and tabulation of the morbidity and mortality records.

#### ERRORS

There are two chief sources of error in a distribution of this type: First, the tendency of the physician to record as in a town, cases which properly belong to the surrounding country districts; second, differences in the completeness of reporting in the country districts as compared with reporting in the incorporated towns.

In order to check the effect of the first error a special study of the location of the cases which occurred during 1925 was undertaken As each case was reported, the address was scrutinized. If the street



and number were given, it was assumed that the case properly belonged to the city or town from which reported. If no street address was given, or if the address was given as R. F. D., a letter was addressed to the attending physician requesting the exact location.

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Upon receipt of a reply (replies were received in a great majority of cases), the case was then properly recorded on a spot map. The distribution of the cases which occurred during 1925 was then made on a corrected basis. It will be noted that these corrections did not materially alter the distribution of cases for that year (Table 1, column d) as compared with the previous year (column c), which had not been subjected to *such special inquiry.

In the allocation of deaths the same sort of error might enter, if a large proportion occurred in hospitals and the death certificate did not give the home address. The examination of a large sample of certificates has convinced us that this error does not play a considerable rôle in this study.

With regard to the second source of error, i. e., incompleteness of reports from the country districts, two lines of evidence are available. The first is the ratio between cases and deaths, bearing in mind that the two sets of reports are collected through independent agencies. The second is the actual comparison of the reporting of physicians who live in country districts with the reporting of those who live in towns.

The ratio of cases to deaths reported in the several groups is as follows:

Group	Number of cases reported to each death	
I	4. 1 8. 3 8. 7 7. 4 5. 9 6. 7 5. 5	

Judged by this ratio, the reporting of typhoid cases in the country districts and unincorporated towns (Group I) is only about half as complete as in the small incorporated towns (Groups II and III) and two-thirds as complete as in cities (Groups VI and VII). If it be assumed that complete reporting is represented by a ratio of 10 cases to 1 death, and the mean morbidity rate of each group (Table 1, column g) be adjusted on this basis, the corrected morbidity rates would then be as follows:

Group	Adjusted mean mor- bidity rate
IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	13. 0 53. 4 35. 3 24. 3 27. 8 19. 0 9. 4

709 April 16, 1926

It will be seen from these adjusted rates that the order of these corrections for completeness of reporting is not sufficiently large to change the relationships materially. Moreover, the assumption that, a uniform fatality rate holds for all groups is not entirely justified.

To check further the completeness of reporting, the records ¹ for 1924 and 1925 of a random sample of 436 physicians (about 25 per cent of the active practitioners of the State) were analyzed. They were then grouped according to the place of residence of the physicians as in the previous tabulations. The result was as follows:

Residence in—	Number of phy- sicians	Report cards re- turned per phy- sician
Group I Group II Group III Group III Group IV Group V Group VI Group VI	129 40 58 49 34 52 74	26. 1 27. 5 30. 9 28. 7 23. 6 25. 0 22. 9

There is a striking uniformity of response, suggesting that the degree of frequency in reporting depends more upon personal factors than upon the environment in which a physician practices. Physicians living in the country districts report as frequently as those living in the towns and more frequently than those living in the cities.

It appears from these considerations that the differences in the typhoid rate of the various population divisions as set forth in the tables and the graph are significant. The errors involved do not seem to account for more than a small part of these differences.

#### DISCUSSION

Inferences drawn from these differences should have a direct practical bearing in shaping administrative policies directed toward the reduction of the State typhoid rate. Sanitation of the larger cities will have little effect upon the total rate of a State the population of which is largely rural. On the other hand, the population living in the unincorporated towns and country districts have comparative protection by virtue of their very lack of contact with their fellow man. Although comprising 71 per cent of the total population, the people living in the country districts in Alabama contribute only 41 per cent of the annual typhoid-fever toll. The risk of typhoid fever in this part of the population would appear to be

¹ Under the Alabama system of reporting a card is sent to every active physician in the State once each week. He is requested to return the card whether he has a case to report or not, in order that the completeness of the return may be estimated. (See Maxey, K. F.: The Alabama System of Notifiable Disease Reports. Pub. Health Rep., July 4, 1924, pages 1611-1620.)

no greater than that of persons living in the large and relatively large cities.

The most fruitful field for typhoid reduction is the small incorporated town. In Alabama there are 116 towns ranging in population from 500 to 2,500. Though constituting only 7 per cent of the total population of the State they furnish annually 28 per cent of the typhoid fever cases. For persons living in these towns the risk of contracting typhoid fever is excessive, at least four times greater than for residents of the country districts or in the larger cities. Obviously the control measures should be directed primarily to this group.

Some years ago Dr. Allen Freeman called attention to the small town as the neglected unit in sanitation.² The rates revealed by these analyses are a reflection of the condition which he then discussed.

Surveys of a number of towns in Alabama are being conducted to determine exactly the *status quo*. Results already obtained emphasize anew the necessity for adequate legislation and administrative machinery to improve systematically the sanitation of every town in the State, a program which has already been largely consummated by one Southern State—North Carolina.

#### CONCLUSIONS

The highest incidence of typhoid fever in Alabama is in the small towns.

The typhoid fever morbidity and mortality rates in the country districts and unincorporated communities of Alabama are less than one-fourth as great as the rates in the small towns and are as low as the rates in the large and relatively well-sanitated cities.

Acknowledgment.—The authors wish to acknowledge their grateful appreciation to Dr. W. Thurber Fales, State Registrar, for his valuable assistance in connection with the compilation of statistical material herein contained.

### WHOLE-TIME COUNTY HEALTH OFFICERS, 1926

The following directory has been compiled from data furnished as of January 1, 1926, by State health officers. Similar directories for 1922, 1923, 1924, and 1925 have been published in the Public Health Reports. The directory for 1925 was issued as Reprint No. 1012.

In the questionnaire sent for the purpose of obtaining the necessary information, a "whole-time" county health officer was defined

^{*}Freeman, Allen W.: The Small Town-The Neglected Unit in Sanitary Administration, Southern Medical Journal, Vol. IX (1916), page 126.

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as "one who does not engage in the practice of medicine or any other business, but devotes his whole time to official duties."

Directories of State health departments have been published annually by the Public Health Service for the years 1912 to 1925, inclusive. The directory for 1925 was issued as Reprint No. 1043 from the Public Health Reports.

Directories of city health officers have been published annually for the years 1916 to 1925, inclusive, the directory for 1925 being Reprint No. 1025.

Directories of State and city health officers for 1926 will be published later.

State and county	Name of health officer	Post-office address	Official title
Alabama:			
Baldwin	G. C. Marlette, M. D.	Bay Minette	County health officer.
Barbour	E. M. Moore, M. D. G. A. Cryer, M. D. H. P. Rankin, M. D. W. T. Burkett, M. D. A. E. Keller, M. D. L. T. Lee, M. D. C. L. Murphree, M. D.	Clayton	Do.
Calhoun	G. A. Cryer, M. D.	Anniston	Do.
Conee	H. P. Rankin, M. D.	Elba Tuscumbia	Do. Do.
Conteston	W. T. Burkett, M. D	Andalusia	Do. Do.
Dollag	I. T. Lee M. D.	Selma	Do.
Feembia	R D Nool M D	Brewton	Do.
Etowah	C. L. Murphree, M. D.	Gadsden	Do.
Franklin	C. L. Murphree, M. D. L. J. Graves, M. D. L. R. Poole, M. D. H. P. Burbage, M. D.	Russellville	Do.
Houston	L. R. Poole, M. D.	Dothan	Do.
Jackson.	H. P. Burbage, M. D.	Scottsboro	Do
Jefferson Lauderdale	J. D. Dowling, M. D.	Birmingham	Do.
Lauderdale	W. D. Hubbard, M. D	Florence	Do.
Lawrence	R. E. Harper, M. D.	Moulton	<u>р</u> о.
Lee		Opelika	Po.
Limestone	L. R. Murphree, M. D.	Athens Huntsville	Do.
Madison	W. C. Hatchett, M. D	Huntsville	Do. Do.
Marengo	W. C. Hatchett, M. D. J. R. Long, M. D. W. H. Harper, M. D. C. A. Mohr, M. D.	Linden Guntersville	Do.
Marshall	W. H. Hilrper, M. D.	Mobile	Do.
Montgomery			Do.
Morgan	H. C. McRee, M. D. W. H. Abernethy, M. D. J. S. Hough, M. D. J. H. Hill, M. D.	Albany	Do.
Pike	W H Abernethy M D	Troy.	Do.
Sumter	J. S. Hough, M. D.	Livingston	Do.
Talladega	J. H. Hill, M. D	Talladega	Do.
Tuscaloosa	A. A. Kirk, M. D.	Tuscaloosa	Do.
Walker		Jasper	Do.
Arizona: Cochise		Bisbee	County superintend- ent of public health.
Arkansas:			
Garland	Austin F. Barr, M. D	Hot Springs	Director.
Jefferson	F. Michael Smith, M. D	Pine Bluff	Do.
Pulaski	F. Michael Smith, M. D V. T. Webb, M. D	Little Rock	Do.
Sebastian (district)	J. E. Johnson, M. D	Fort Smith	District health officer.
California:			FT - 141 - 49
Los Angeles Monterey	J. L. Pomeroy, M. D.	Los Angeles	
Monterey	R. C. Main, M. D.	Salinas	Do. Do.
Orange		Santa Ana San Diego	
San Diego	Lohn T. Copper M. D.	Stockton	
San Joaquin San Luis Obispo	K. H. Sutherland, M. D.	Stockton San Lais Obispo	Do.
Santa Barbara		Santa Barbara	Do.
Colorado:	A. I. Hallboo, M. D.	Lance Bankaria	
Otero	Guy A. Ashbaugh, M. D	Rocky Ford	County health officer.
Florida:	W. M. Bevis, M. D.	Bartow	Do.
Polk (Polk County health unit). Georgia:			
Baker.	M. A. Fort, M. D. Sam A. Anderson, M. D.	Bainbridge	Health officer.
Baldwin	· ·	Milledgeville	health.
Bartow	D. H. Monroe, M. D.	Cartersville	
70.13 T	C. L. Ridley, M. D	Macon	
Bibb	IT To templambite M. D.	Athens	Commissioner of
Clarke	J. D. Applewhite, M. D.	1	
Clarke		1	health.
Clarke		1	Do.
Clarke	J. E. Lester, M. D. M. A. Fort, M. D. J. R. Evans, M. D. H. Robinson, M. D.	1	Do. Do.

State and county	Name of health officer	Post-office address	Official title
Complete Continued			
Georgia—Continued. Floyd	B. V. Elmore, M. D.	Rome	Commissioner of health.
Glynn	H. L. Akridge, M. D. M. A. Fort, M. D.	Brunswick	Do.
Grady	M. A. Fort, M. D.	BainbridgeGamesville	Health officer. Commissioner of
Hall	B. D. Blackwelder, M. D	Gamesvine	health.
Laurens	O. H. Cheek, M. D. G. T. Crozler, M. D. C. O. Ramey, M. D. L. L. Dozler, M. D. W. H. Houston, M. D. J. W. Wallace, M. D. S. C. Rutland, M. D. J. H. Hammond, M. D. Geo. E. Atwood, M. D.	Dublin	Do.
Lowndes	G. T. Crozier, M. D.	Valdosta.	Do.
Mitchell Richmond	C. O. Rainey, M. D.	Camilla	Do. Do.
Sumter	W H Houston M D	AugustaAmericus Thomasville	D6.
Thomas	J. W. Wallace, M. D.	Thomasville	Do.
Troup. Walker	S. C Rutland, M. D.	Lagrange La Fayette Wayeross	Do.
Walker	J H. Hammond, M. D.	La Fayette	Do. Do.
Ware Illinois:	Geo. E. Atwood, M. D		ъ.
Cook	Herbert L Wright, M. D., Ph. G., Dr P. H. W. H. Newcomb, M. D R. V. Brokaw, M. D	Chicago, 737 South Lincoln.	County health di-
	Ph. G., Dr P. H.	Lincoln.	rector
Morgan	W. H. Newcomb, M. D.	Jacksonville Springfield	County health officer. City and county health
Sangamon	A. V. Drokaw, M. D.	Springheta	officer.
Iowa:			
Dubuque	D. C. Steelsmith, M. D., C.	Duhuque	Director of health.
Kansas:	P. H.		
Butler	R. I. Cabeen, M. D.	Eldorado	County health officer.
Coffey	R. J. Cabecn, M. D. V. McMullen, M. D.	Burlington	Dá,
Ellis	Fred C. Cave, M. D. R. B. Stafford, M. D.	Hays	Do.
Geary Jefferson	R. B. Stanord, M. D.	Junetion City Oskaloosa	Do. Do.
Lyon	D. M. Stevens, M. D.	Emporia	Do.
Marion	J. S. Fulton, M. D. J. H. Saylor, M. D. L. S. Steadman, M. D. M. O. Nyberg, M. D. G. D. M. Lambdin, M. D.	Marion	Do.
McPherson	L. S. Steadman, M. D	McPherson Minneapolis	Do.
Ottawa Phillips	M. O. Nyberg, M. D.	Minneapolis Phillipsburg	Do. Do.
Kentucky:		•	100.
Boyd	R. D. Higgins, M. D.	Ashland	Director of health.
Daviess	R. M. Hathaway, M. D.	Owensboro	Do.
Fayette	J. S. Chambers, M. D.	Lexington	Da. Da.
Fulton Jefferson	R. D. Higgins, M. D. R. M. Hathaway, M. D. J. S. Chambers, M. D. J. C. Morrison, M. D. E. P. Whistler, M. D.	Hickman Louisville, Armory	County health officer.
		Billioing.	
Johnson	J. P. Wells, M. D. H. J. Hutchings, M. D. A. Stewart, M. D.	Paintsville	Director of health.
Mason Scott	H. J. Hutchings, M. D.	Maysville	Do. Do.
Louisiana; i	A. Geowait, M., D.	Georgetown	
Caddo	W. J. Sandidge, M. D.	Shreveport	Unit director, Parish bealth officer.
Clarharma	John D. Mumor M. D.	Потоп	bealth officer.
Claiborne De Soto	R. A. Thorn, M. D.	Mansfield	Do.
La Fourche	John R. Turner, M. D. R. A. Tharp, M. D. H. S. Smith, M. D. W. W. Knipmeyer, M. D. Paul R. Neal, M. D.	Homer Mansfield Thibodaux	Do.
Natchitoches	W. W. Knipmeyer, M. D	Natchitoches	l Do.
Ouachita	Paul R. Neal, M. D	Monroe	Unit director, deputy Parish health officer.
Plaquemines	A. B. Jemison, M. D.	Buras	Unit director, Parish
			health officer.
St. Mary	Thos. B. Wilson, M. D.	Franklin	Do.
Tangipahoa Washington	Thos. B. Wilson, M. D. T. C. W. Ellis, M. D. John Schreiber, M. D. E. B. Godfrey, M. D.	Amite Franklinton	Do. Do.
Webster	E. B. Godfrey, M. D.	Minden	Do.
Maryland:			1
Allegany. Baltimore	C. C. McCulloch, M. D. J. S. Bowen, M. D. J. N. King, M. D. W. T. Stone, M. D. E. C. Kefauver, M. D. W. T. Pratt, M. D.	Cumberland	County health officer.
Calvert	I. N. King M. D	Towson	l Do
Carroll	W. T. Stone, M. D.	Westminster Frederick Rockville	Do.
Frederick	E. C. Kefauver, M. D.	Frederick	Do.
Montgomery Massachusetts:	W. T. Pratt, M. D.	RCCKVUIE	Do.
Cape Cod Health	A. P. Goff, M. D.	Hyannis	Director, Cape Cod
District.	,		Health Bureau.
Minuesota: St. Louis	H. G. Lampson, M. D.	Destrock	Corner health
Mississippi:	H. G. Lampson, M. D.	Duluth	County health officer.
Bolivar	R. D. Dedwylder, M. D.	Cleveland	Director of health.
Coshoma	D D Winkmotriek Rf Ti	d Clawboolele	. Do.
Forrest.	W. D. Beacham, M. D.	Hattieshurg	Do.
Harrison Hancock	C M Shipp M D	Gulfport Bay St. Louis	County health officer. Director of health.
Minds	J. B. Black, M. D., C. P. 11	Jackson	.l Do
	777 73 (1) 3.5 75	Paran garrie	I Da
Jackson	W. E. Sharp, M. D.	Pascagoula	. Do
Jackson Jones Lee	W. D. Beacham, M. D. D. J. Williams, M. D. C. M. Shipp, M. D. J. B. Black, M. D., C. P. H. W. E. Sharp, M. D. J. M. Kittrell, M. D.	Laurel	Do. Do.

¹ Parishes.

State and county	Name of health officer	Post-office address	Official title
Mississippi—Contd.			
Pearl River	W. B. Harrison, M. D.	Poplarville	Director of health.
Sharkey Washington	A. K. Barrier, M. D. A. J. Ware, M. D.	Rolling Fork	Do. County health officer.
Missouri:		GIGGHVIJKO.	county nearth officer.
Boone	Finis Suggett, M. D. E. L. Spence, M. D. E. M. Lucke, M. D. J. W. Williams, r., M. D. F. G. Crandall, M. D.	Columbia	Do.
Dunklin	E. L. Spence, M. D.	Kennett	$\mathbf{p}_{\mathbf{q}}$
GentryGreene	E. M. Lucke, M. D.	Albany. Springfield.	Do. Do.
Jackson	F. G. Crandall, M. D.	Independence	Do.
New Madrid	Wm. N. O'Bannon, M. D. C. P. Fryer, M. D., C. P. H. W. S. Petty, M. D. W. L. Bradford, M. D. G. D. Smith, M. D. W. W. Johnston, M. D. W. F. O'Malley, M. D.	New Madrid	Do.
Nodaway	C. P. Fryer, M. D., C. P. H.	Maryville Caruthersville	Do.
Pemiscot	W. S. Petty, M. D.	Sedalia.	Do. Do.
Pettis Polk	G D Smith M D	Bolivar	Do. Do.
St. Francois.	W. W. Johnston, M. D.	Flat Rivor.	Do.
St. Francois St. Louis	W. F. O'Malley, M. D	Clayton	Do.
Montana:			T) -
Lewis and Clark	T. E. Welker, M. D Arthur Jordan, M. D F. D. Pease, M. D	Helena	Do. Do.
Missoula	F D Pesso M D	Missoula	Do. Do.
New Mevico.			20.
Bernalillo	J. R. Scott, M. D., P. H. D., J. A. Smith, M. D.	Albuquerque	Do.
Chaves	J. A. Smith, M. D	Roswell	ро.
Dona Ana	C. W. Gerber, M. D.	Las Cruces.	Do
Eddy McKinley	E W Prothro M D	Carlsbad	Do. Do.
Santa Fe.	H. P. Mero, M. D.	Santa Fe	Do.
Union	W. H Enneis, M. D. C. P. H.	Clayton Los Lunas	Da.
Valencia	E. I. Vaughn, M. D. E. I. Vaughn, M. D. E. W. Prothro, M. D. H. P. Mera, M. D. W. H. Enneis, M. D., C. P. H. G. L. Luckey, M. D.	Los Lunas	Do.
New Yerk		070.00	D.
Cattaraugus North Carolina	Stephen A. Douglass, M. D	Olean	Da.
Beaufort	J. W. Williams, M. D	Washington	Do.
Bertie	I I Cmith M D	Window	Do.
Bladen	W T. Ruark, M. D.	Elizabethtown	Do.
Brunswick	R. E. Broadway, M. D.	Southport	Do.
Buncombe.	S E Buchanan M D	Concord	Do. Do.
Columbus	Floyd Johnson, M. D.	Whiteville	Do.
Craven	W. T. Ritark, M. D. R. E. Broadway, M. D. G. A. Morgan, M. D. S. E. Buchanan, M. D. J. W. Brother, M. D. J. W. McNeill, M. D. J. H. Epperson, Ph. D. J. R. Hego, M. D. J. R. Hego, M. D. J. A. Morris, M. D. R. M. Buie, M. D. E. W. Larkin, M. D. E. W. Larkin, M. D. C. C. Massey, M. D. R. S. McGeachy, M. D. J. H. Hamilton, M. D. J. H. Hamilton, M. D. J. H. Hamilton, M. D. J. H. Hamilton, M. D. J. H. Hamilton, M. D. J. P. Mitchell, M. D. J. P. Mitchell, M. D. D. A. Dees, M. D.	New Bern.	Do.
Craven Cumberland	J. W. McNeill, M. D.	Fayetteville,	Do.
Davidson	G. C. Gambrell, M. D.	Lexington	Do.
Durham	J. H. Eppelson, Ph. D.	Durham Tarboro	Do. Do.
Edgecombe Forsyth	J. R. Hege, M. D.	Winston-Salem	Do.
Granville.	J. A. Morris, M. D.	Oxford	Do-
Guilford	R. M. Bule, M. D	Greensboro	• Do.
Halifax	E. W. Larkin, M. D.	Weldon Hendersonville	Do.
Henderson Johnston	C C Moseon M D	Smithfield.	Do. Do.
Lenoir	R. S. McCleachy, M. D.	Kinston	Do.
Mccklenhurg	W. A. McPhaul, M. D	Charlotte	Do.
New flanover Northempten	J. H. Hamilton, M. D.	Wilmington	Do.
Northampten	Z. P. Mitchell, M. D.	Jackson	Do.
Pantheo	D. A. Dees, M. D. C. L. Outland, M. D. E. R. Hardin, M. D. C. W. Arnistrong, M. D. A. B. McCreary, M. D.	Bayboro	Do. Do.
Robeson	E. R. Hardin, M. D.	Lumberton	Do.
Down	C. W. Armstrong, M. D.	Salisbury	Do.
Richmond	A. B. McCreary, M. D.	Rockinglanu	Do.
Rutherford	TO ID Trallinguages by No Th	Climbers Cadwoll	Do.
Sampson Surry	R M Languster M D	Clinton	Do. Do.
Vance.	E. T. Hollingsworth, W. D. R. M. I. Ancester, M. D. F. R. Harris, M. D. A. C. Bulla, M. D. L. W. Corbett, M. D. J. W. White, M. D. J. J. Swith, M. D.	Mount Airy. Henderson	Do.
Wake	A. C. Bulla, M. D.	Raleigh	Do.
Wayne	L. W. Ccrbett, M. D.	Goldsboro	Do.
Wilkes	L. J. Smith, M. D.	North Wilkesboro	Do.
Wilson Ohio:	II. J. SILLIUI, IVI. D.	Wilson	Do.
Allen	J. J. Sutter, M. D	Lims	District health com missioner.
Ashtabula	W. S. Weiss, M. D.	Jefferson	Do.
Athens	J M Higgins, M. D.	Athens. St. Clairsville.	Do.
Belmont	F. R. Dew, M. D.	Sk. Clarsville	Do
Butler Clermont	E A Train M D	Hamilton	Do. Do.
Clinton.	W. K. Ruble, M. D	Batavia Wilmington	Do.
Columbiana	C. H. York, M. D.	Lisbon	Do.
Charles A.	1 15 N.C. Challenger 12 Ad. 35	Coshacion	Do.
Coshocton	D. M. Criswell, M. D.		
Crawford	G. T. Wasson, M. D	Bucyrus	₽œ.
Crawford	G. T. Wasson, M. D. Robert Lockhart, M. D.	Bucyrus	Do. Do.
Crawford Cuyahoga Delaware	G. T. Wasson, M. D. Robert Loekhart, M. D. A. J. Pounds, M. D. F. M. Houghtaling, M. D.	Bucyrus Cleveland Delaware Sandustry	Do,
Crawford	G. T. Wasson, M. D.	Bucyrus Cleveland Delaware Sandusky Washington Court	DG. Do. Do. Do. Do.

State and county	Name of health officer	Post-office address	' Official title
Ohio-Continued.			
Franklin	H H Snively, M. D.	Columbus	District health com- missioner.
Geauga	Walter Corey, M. D. S. F. Whisler, M. D. W. G. Rhoten, M. D. B. C. Pilkey, M. D. J. P. Young, M. D. C. A. Neal, M. D. E. J. Schwartz, M. D. I. C. Riggin, M. D. F. F. De Vore, M. D. J. F. Elder, M. D. N. Sifritt, M. D. Jane Nye Gilliford, M. D. Jane Nye Gilliford, M. D. F. E. Ayers, M. D.	Chardon	Do.
Hancock	S. F. Whisler, M. D.	Findlay	Do.
Hocking	W. G. Rhoten, M. D.	Logan	Do. Do.
Huron	I P Young M D	Norwalk. Steubenville	Do. Do.
Jefferson Hamilton	C. A Neel M. D	Cincinnati	Do.
Lake	E. J. Schwartz, M D	Painesville	Do.
Lorain	I C. Riggin, M. D	Oberlin	Do.
Lucas	F. F. De Vore, M. D.	Toledo Younstown	Do.
Mahoning	J. F. Elder, M. D.	Younstown	Do. Do.
Marion	Tone Nya Gilliford M. D.	Marion	Do. Do.
Meigs Mercer	F E Avers M D	Celina	Do.
Miami	P. J. Crawford, M. D.	Troy	Do.
Montgomery	H. H. Pansing, M. D.	Dayton Mount Gilead	Do.
Morrow	R. L. Pierce, M. D	Mount Gilead	Do.
Muskingum	J. M. O'Neal, M. D.	Zanesville	Do.
Perry Richland	F. J. Crosbie, M. D.	New Lexington	Do.
Richland	D. C. Lavender, M. D.	Mansfield Chillicothe	Do. Do.
Sandusky	O H Thomas M D	Fremont	Do.
Scioto	R. W. DeCrow, M. D	Wheelersburg	Do.
Seneca	J. J. Heaton, M. D.	Tiffin	Do.
Shelby	M. D. Ailes, M. D	Sidney	Do.
Stark	C. M. Peters, M. D	Canton	Do.
Summit Trumbull	R. H. Markwith, M. D	Akron	Do.
Trumbull	L. A. Connell, M. D.	Warren	Do. Do.
Tuscarawas	J. Blickensderier, M. D	New Philadelphia Marysville	Do.
Union Washington	A G Sturgies M D	Marietta	Do.
Wayne	C. D. Barrett, M. D.	Wooster	Do.
Wood	H. J. Powell, M. D.	Bowling Green	Do.
Oklahoma: Carter	Jane Nye Gilliford, M D F. E. Ayers, M D P. J. Crawford, M D H. H. Pansing, M D R. L. Pierce, M D J. M. O'Neal, M D F. J. Croebie, M D D. C. Lavender, M D G. E. Robbins, M D G. H. Thomas, M D R. W. DeCrow, M D J. J. Healon, M D D. M. D. Alles, M D C. M. Peters, M D C. M. Peters, M D J. Blickensderfer, M D J. Blickensderfer, M D J. Blickensderfer, M D A. G. Sturgiss, M D A. G. Sturgiss, M D C. D Barrett, M D H. J. Powell, M D H. J. Powell, M D H. J. Powell, M D H. J. Powell, M D H. J. Powell, M D H. C. Sullivan, M D	Ardmore	County superintend-
T a Flans	W E Lumpford M D	Poteau	ent of health. Do.
Le Flore McCurtain	W. F. Lunsford, M. D R. D. Williams, M. D	Idabel	$\widetilde{\mathbf{D}}_{0}$ .
Muskogee		Muskogee	Do.
Oklahoma	George Hunter, M. D.	Muskogee Oklahoma City	Do.
Okmulgee	J. O. Wails, M. D	Okmulgee	Do.
Ottawa	George Hunter, M. D. J. O. Wails, M. D. F. P. Helm C. M. Pearce, M. D.	Miami	Do.
Pittsburg	C. M. Pearce, M. D.	McAlester	Do.
Oregon:	F W Wallace M D	Oregon City	County health officer.
Clackamas Coos	P. M. Drake, M. D.	Coquille	Do.
Douglas	W. C. Belt, M. D.	Roseburg	Do.
Jackson	V. S. Gearey, M. D	Roseburg Jacksonville Klamath Falls	<b>D</b> o.
Klamath	F. W. Wallace, M. D. P. M. Drake, M. D. W. C. Belt, M. D. V. S. Gearey, M. D. G. S. Newsom, M. D.	Klamath Falls	Do.
South Carolina:			Do.
Aiken Anderson	E E Enting M D	Anderson	Do.
Beaufort	T. R. Meyer, M. D	Beaufort	Do.
Charleston	Leon Banov, M. D.	Charleston	Do.
Cherokee	W. L. Poole, M. D. F. L. Echols, M. D.	Gaffney	Do.
Colleton	F. L. Echols, M. D.	Walterboro	Do.
Darlington	A B. Hoofon, M. D	Darlington	Do.
Dillon Fairfield	H T Kannady M D	Dillon	Do. Do.
Georgetown	I. I. Williams M D	Winnsboro. Georgetown	Do.
Georgetown Greenville Greenwood	Baylis Earle, M. D	Greenville	Do.
Greenwood	W. L. Martin, M. D.	Greenville Greenwood	Do.
Marion Newberry	F N. Andrews, M. D.	Marion.	Do.
Newberry	H. G. Callison, M. D.	Newberry	
Orangeburg Spartanburg	G. C. Bolin, M. D.	Orangeburg	Do.
Spartanburg	R. G Benemey, M. D	Spartanburg	Do.
Soute Dakota: Brown			Director of health,
Pennington	George M. Boteler, M. D.	Rapid City	
Yankton	D. R. Jones, M. D. Thomas F. Ballard, M. D.	Yankton	Do.
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Blount	K. A. Bryant, M. D.	Maryville	Field director.
Davidson	J. J. Lentz, M. D	Nashville Dyersburg	County health officer.
Dyer	w. J. Cameron, M. D.	Dyersburg	Do.
Uloson	F. L. Koperts, M. D.	Trenton Chattanooga	Do.
Montgamery	F I Melone M D	Clarksville	Do. Do.
Objon.	C. B. A. Turner. M. D	Union City	Do. Do.
Roane.	J. C. Fly. M. D	Kingston	Do.
Rutherford	K. A. Bryant, M. D. J. J. Lentz, M. D. W. J. Cameron, M. D. F. L. Roberts, M. D. J. W. Dennis, M. D. F. J. Malone, M. D. C. B. A. Turner, M. D. J. C. Fly, M. D. H. S. Mustard, M. D. J. A. Craptree, M. D.	Murfreesboro	Do.
Sevier	J. A. Crabtree, M. D. S. S. Moody, M. D. L. M. Graves, M. D.	Sevierville	Field director.
Weakley	S. S. Moody, M. D.	Dresden	County health officer.
w miamson	. L. M. Graves, M. D	. rrankin	Do.

State and county	Name of health officer	Post-office address	Official title
Texas:	,		
Cameron	Joe E. Tyson, M. D	San Benito	County health officer
Hidalgo	J. R. Mahone, M. D.	Pharr	Do.
Jefferson	J. D. Blevins, M. D.	Beaumont	Do.
McLennan	R. McCormick, M D.	Waco	Do.
Tarrant	Frank P. Smith, M. D.	Fort Worth	Do.
Utah:	Frank I. Omnou, Mr. Danie	TOTO WOLDS	10.
Davis	Sumner Gleason, M. D	Kaysville	Do.
Weber	Earl Beinap, M. D.	Ogden	Do.
Virginia.	Earl Demap, M. D.	Ogden	D0.
Accomac	D D Cook M D		T>-
Albemarle	R. P. Cook, M. D	Accomac	Do.
	G. B. Young, M. D.	Charlottesville	Do.
Arlington	P. M. Chichester, M. D.	Clarendon	Do.
Augusta	H. M. Wallace, M. D.	Staunton	Do.
Brunswick	L. H. Lewis, M. D.	Lawrenceville	' Do.
Fairfax	W. P. Caton, M. D	Fairfax	Do.
Halifax	Kolbe Curtice	South Boston	Do.
Henrico.	G. H. Musgrave, M. D	Richmond	Do.
Isle of Wight	G. F. McGinnis, M D	Smithfield	Do
James City	J. H. Crouch, M. D	Williamsburg	Do.
Nansemond	C. F. Moriarty, M. D.	Suffolk	Do.
Northampton	P. H. Smith, M. D	Eastville	Do.
Sussex	David B. Lepper, M. D	Sussex Court House	Do.
Wise	W. R. Culbertson, M. D.	Norton	Do.
Washington	,,,,,,		
Chelan	Paul L. West, M. D	Wenatchee.	Do.
King	Geo. H. T. Sparling, M. D	Seattle	Do.
Walla Walla	Oliver Morchead, M. D.	Walla Walla	Do.
Yakima	H. H. Smith, M. D	Yakima.	Do.
West Virginia:	11. 11. Billion, 14. D.	1 akma	100
Gilmer	H. C. Douglass, M. D.	Glenville	Do.
Hancock	John B. Ahoouse, M. D.	New Cumberland	Do.
	TOTAL Calba M. D.	Clarksburg	Do.
Harrison	V. A Selby, M. D.		Do.
Logan	R. S. Van Metre, M. D.	Logan Fairmont	
Marion	Randolph McCutcheon, M. D.	Furmont.	Do.
Marshall	C. C. Hedges, M. D.	Moundsville	
Preston		Kingwood	Do.
Roane	F. C. Makepeace, M. D	Spencer	Do.
Wyoming:			l
Natrona.	H. Garst, M. D	Casper	Director of health.

### SMALLPOX VACCINATIONS IN LOS ANGELES, CALIF.

The following note is taken from the Weekly Bulletin for March 27, 1926, issued by the California State Board of Health:

The Los Angeles City Department of Health advises that more than 300,000 individuals have been vaccinated against smallpox by the department's staff during the period dating from January 1, 1926 to March 6, 1926. Of these, at least 120,000 are pupils in the public schools, 65,000 are employees in the industries, and 5,000 are inmates of institutions. Many thousands of vaccinations have also been done by private practitioners of medicine.

#### PUBLIC HEALTH ENGINEERING ABSTRACTS

Housing Conditions in Relation to Malaria in the United States. J. A. LePrince, United States Public Health Service Bulletin No. 156, 1925, pp. 85-90. (Abstracted by J. A. LePrince.)

This is a summary of some decidedly important investigations now being conducted by Dr. C. P. Coogle, United States Public Health Service, in the Mississippi Delta.

For a number of years the plantation and farm owners of the most malarious sections of the United States have had the idea that it is April 16, 1926 716

not possible or practicable to keep negro farm tenant homes effectively screened at a reasonable cost. Doctor Coogle proves that such is not the case to-day, and that in most instances they can be induced to take better care of the screen of their screened homes than is the case with white farm tenants. In a period of 12 months in 1924 a test of 20 homes with 54 doors and 57 windows was made. Only one of the 111 screen panels were torn, and that one was repaired promptly by the colored house tenant. The reasons for this success, as well as of cause of previous failure to keep screening effective, are given. The writer indicates that there is a "right way" as well as a "wrong way" to go about the screening of farm homes, and that going about it the wrong way is to a large extent responsible for the continuous high malaria prevalence rates in rural districts of the United States.

ABSTRACTOR'S NOTE.—It is thought that possibly the above will apply to a number of other countries as well as to the United States.

The continuation of Doctor Coogle's studies in 1926 gave equally good results on 20 additional farm tenant homes. Nineteen of the twenty colored families kept the door and window screens without a rip or defect for a period of 24 months, and yet it is customary not to screen homes of colored farm tenants because "they can not be induced to take proper care of the screen."

Applying Oil Under Pressure as a Mosquito Larvicide. T. H. D. Griffitts, United States Public Health Service Bulletin No. 156, 1925, pp. 15-22. (Abstracted by J. A. LePrince.)

The author describes an economical means of applying oil as a larvicide to the *Anophelės*-producing portions of large impounded water projects. A detailed description of the apparatus he devised, together with illustrations, is given. The author stresses the fact that flotage is the most important factor in *Anopheles* production in newly impounded waters. He thinks more intelligent and reliable labor is needed in applying Paris green in connection with impounded water *Anopheles*-control measures than is the case where oil is used as a larvicide.

With the apparatus described, it was observed that a gentle breeze would carry the mistlike oil spray 200 feet and give a complete oil film on the water surface. The apparatus will spray 25 gallons of oil per hour of continuous spraying. The author gives a description of the successful application of this oil-spraying device at a lake near Newton, Ala., at the new large lake at Muscle Shoals, and at Mitchell Dam Reservoir in Alabama.

Larvicides. C. H. Kibbey, United States Public Health Service Bulletin No. 156, 1925, pp. 141-142. (Abstracted by J. A. Le-Prince.)

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The author calls attention to improper use and to wastage in the application of larvicides. He thinks that the kerosene or lighter oils used to dilute heavier crude oil (to be used as larvicides) would be just as effective if used in the same quantity without being added to the crude oil. Gasoline is the most strongly larvicidal of all the petroleum products.

For a period of years he has used a motor boat to destroy larvæ of A. quadrimaculatus by wave action on a large lake, and the third boat is now being used, two others having been worn out in this service. The malaria situation at the mine village near the lake made it necessary to close down the mine or solve the malaria problem economically. He states: "The fellow who believes he has a problem in malaria control which can not be solved is probably correct in so far as he is concerned, but he need look no further than under his own hat for the reason."

Dispersal of Male Anopheles from Breeding Places. Bruce Mayne, Associate Sanitarian, United States Public Health Service. Public Health Bulletin No. 156, p. 107. (Abstracted by W. H. W. Komp.)

An overlapping of broads of Anopheles occurs in nature, as all the eggs of one female are not laid at one time, and the larvæ from one batch of eggs do not develop with the same rapidity. The majority of eggs laid develop into males, a provision of nature to insure the fertilization of the female.

The appearance of the male denotes the presence of water from which it has just emerged, or where egg-laying is going on. The great discrepancy noted in the numbers of males emerging and the numbers found in resting places may possibly be explained on the basis of food requirements. The finding of males in spring is a sign that new emergences are taking place, as the male does not survive the winter. The earliest record for such males in the latitude of central Mississippi is given as March 14. The author gives as his impression that the predominance of males is an indication of near-by producing area, their abundance being in direct ratio to the nearness of a body of water. In midseason the male is seldom found in houses, but frequents woods and streams.

A simple way of determining the efficacy of control measures is suggested in looking for male mosquitoes both before and after such measures have been instituted. If there is a sharp reduction in males, the work may be assumed to be progressing satisfactorily.

ABSTRACTOR'S NOTE.—In southern Louisiana during 1923, in a rice-field region with high Anopheles production, of 2,667 Anopheles mosquitoes bred to maturity in the laboratory from field collections, 1,552 were females, and 1,125 were males. Barber, Komp, and Hayne (Pub. Health Rep., vol. 40, No. 3) have shown that the proportions of the sexes of Anopheles found in different resting places

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is not dependent on nearness to the breeding place, but on the accessibility of a blood supply. The bloodless shelters (hollow trees, ampty houses, etc.) show the largest percentage of males.

Observations on the Relative Importance of A. Quadrimaculatus, A. Crucians, and A. Punctipennis in Transmitting Malaria. Bruce Mayne, Associate Sanitarian, United States Public Health Service, Public Health Bulletin No. 156, p. 23. (Abstracted by W. H. W. Komp.)

The following conclusions are drawn from the work of various observers: The malaria parasite in one or other of its forms is found naturally in some species and not in others; it is not found constantly in those species which harbor it, although the human index may be constant; although probably all species of Anopheles can be infected with malaria under laboratory conditions, not all become infected to the same degree. With these points in mind, the three common anophelines of the southern United States were examined. A. quadrimaculatus is recognized as being the chief carrier of malaria in the South, and, on epidemiological grounds as well as on the results of dissections of caught imagoes, it seems evident that neither Anopheles crucians nor Anopheles punctipennis is likely to be a dangerous natural carrier, although all three species seem to be equally susceptible to infection under laboratory conditions.

Effect of Temperature on Aquatic Life in Cisterns. F. R. Shaw, United States Public Health Service Bulletin No. 156, 1925, pp. 65-71. (Abstracted by J. A. LePrince.)

The title includes larvæ of mosquitoes. The investigations were made to determine practical data relative to Stegomyia control in Louisiana. In the United States the wooden "above-ground" rainwater cistern is being rapidly replaced by galvanized iron above-ground cisterns. Top minnows live in wooden cisterns and generally keep them free from mosquito larvæ, but temperatures of water in metallic cisterns often become too high to support the natural enemies of mosquito larvæ. This comparative relation of air and water temperatures is discussed together with effect produced by painting the metallic cistern.

The Uniform System of Milk Inspection. J. W. Brittlebank, Manchester, England, Journal Royal Sanitary Institute, vol. 46, No. 8, January, 1926, pp. 372-378. (Abstracted by J. F. Miller.)

Success in carrying out programs of uniform milk inspection has suffered most in the past from the many opinions expressed and the variety of methods suggested for dealing with such a complicated question. Many advisors have not considered that there is a commercial problem as well as a sanitary problem. The real improvement must come from within the trade itself.

On many farms the buildings are dark, poorly ventilated, and overcrowded. Under these conditions it is impossible to produce clean 719 April 16, 1926

milk or to prevent disease. These conditions should be improved, but action should not be too drastic on account of limited financial resources. A careful survey should be made and all necessary improvements recorded and a plan should be devised for a gradual process of reconstruction to extend over a period of 10 years, so that at the end of that period all cow sheds will have been reconstructed.

All producers should be licensed, and license should be refused on those farms where reasonably clean milk can not be produced until improvements have been made. All farms should be classified into three groups, such as Grade A, Grade B, and Grade C.

In Grade A would be placed all farms reported satisfactory regarding the following conditions: (1) The health of the cows; (2) the management; (3) the methods of milking; (4) satisfactory conditions for cooling; and (5) proper provisions for the cleaning of all milk vessels.

In Grade B would be those farms that do not meet the requirements for Grade A, but milk from these farms should not be used for human consumption unless rendered safe by pasteurization.

Grade C would include those farms on which it is impossible to produce reasonably clean milk. These farms should not be licensed until conditions had improved and they were able to comply with regulations for B or A.

Tuberculous infection in milk must be prevented from reaching the consumer and pasteurization is used only as an expedient.

In each county-a whole-time supervising officer (a veterinarian) should be appointed and the inspection work carried out by veterinary practitioners acting under his supervision.

Milk distribution should be confined to bottles, and only those distributors should be licensed who are provided with proper buildings and apparatus for cleaning and sterilizing bottles.

Milk and Pasteurization. H. Whitehead, M. D., Journal Royal Sanitary Institute, vol. 46, No. 6, November, 1925, pp. 247-255. (Abstracted by D. E. Kepner.)

This article treats at length the various sources of contamination in milk, and presents pasteurization as the only feasible method for safeguarding the milk supply. The physical, chemical, biochemical, and bacteriological effects of pasteurization are given, and also statistics indicating a reduction in the death rate from diarrhea and in infant mortality in New York City since it was introduced. The author urges pasteurization because it destroys tubercle bacilli and other pathogens, and because a pure, safe, continuous supply of raw milk can not be produced.

# COURT DECISION RELATING TO PUBLIC HEALTH

Issuance of permit to conduct X-ray laboratory compelled.—(New York Court of Appeals; Sausser v. Department of Health of City of New York, 150 N. E. 603; decided January 12, 1926.) Section 107 of the Sanitary Code of New York City provided as follows:

No person shall maintain, operate, or conduct an X-ray laboratory * * * wherein radiographs are taken, diagnoses made or human beings examined or treated by X-rays, without a permit therefor issued by the board of health, or otherwise than in accordance with the terms of said permit and with the regulations of the said board.

Supplementing this section of the Sanitary Code was a regulation of the board of health reading as follows:

Every X-ray laboratory shall at all times be in charge and under the direction of a duly licensed physician or other person whose knowledge, experience and qualifications to operate and use an X-ray machine are satisfactory to the health department.

The petitioner, a chiropractor, made an application for a permit under the above regulations. He claimed that the only operations which he desired to conduct were those of taking radiographs and not those of making diagnoses or treating patients. The petitioner's experience and skill as an X-ray operator were conceded by the health department, but his application was denied, the department proceeding on the theory that the petitioner proposed to diagnose and treat diseases of the spine and that his status as a chiropractor was not recognized as giving him any standing in the medical profession or any qualifications for diagnosing and treating diseases. The court, however, held this theory to be entirely inapplicable as a reason for denying the petitioner's application, and ordered that a permit be issued to him. The following is a paragraph from the court's opinion:

It rather seems to be the case that the authorities and the courts have so concentrated their vision upon the fact that the petitioner is a chiropractor of unrecognized standing in the medical profession that they have inadvertently overlooked the other fact that he is not urging his right to a limited permit because he is a chiropractor, but simply because he is a concededly experienced and skilled X-ray photographer, and therefore qualified as that "other person" mentioned in the Sanitary Code to take radiographs. The respondent could not arbitrarily reject his application.

In view of this decision, the New York City Board of Health on February 6, 1926, amended the regulation in question to read as follows:

Every X-ray laboratory shall at all times be in charge of and under the direction of a duly licensed physician or other person who is licensed under the laws of this State to diagnose and treat disease and whose knowledge, experience and qualification to use an X-ray machine are satisfactory to the health department.

# SOME PUBLICATIONS SUITABLE FOR GENERAL DISTRIBUTION

There is given below a list of some nontechincal publications issued by the Bureau of the Public Health Service, covering a wide variety of subjects and suitable for general distribution.

The "Keep Well" publications constitute a series of small pamphlets which present important health facts in popular form.

The most important articles that appear each week in Public Health Reports are reprinted in pamphlet form, making possible a wider and more economical distribution of articles that are of interest to health workers, sanitarians, and the general public.

The Public Health Bulletins have proved especially valuable for general distribution in connection with campaigns for health im provement, and are useful to health officers as an aid to the solution of many local health problems.

Those publications not marked with an asterisk (*) are available for free distribution and, as long as the supply lasts, may be obtained by addressing the Surgeon General, United States Public Health Service, Washington, D. C. Those publications marked with an asterisk are not available for free distribution, but may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C., at the prices noted. (Send no remittances to the Public Health Service.)

## Keep Well Series

- *1. The Road to Health. Concise Directions for Keeping Well—Table of Average Weights for Men and Women. 1919. 16 pages. 5 cents.
- *3. How to Avoid Tuberculosis. 1919. 7 pages. 5 cents.
- *4. Diphtheria. How to Recognize it, Keep from Catching it, and Treat Those Who do Catch it. 1919. 15 pages. 5 cents.
- *5. The Safe Vacation. Selection of a Place to go and what to do in Case of Sudden Accident or Illness. 1919. 32 pages. 5 cents.
- 6. Cancer Facts Which Every Adult Should Know. 1919. 30 pages.
- *7. Vaccination: An Excellent Form of Health Insurance. 1919. 8 pages. 5 cents.
- *8. Motherhood: Helpful Advice to the Expectant Mother. 1919. 7 pages.
- *10. Bottle Feeding for Babies. Concise Guide for Mothers. 1919. 9 pages. 5 cents.
- *12. Flat Foot and other Foot Troubles. 1920. 16 pages. 5 cents.
- *13. Good Teeth. 1921. 16 pages. 5 cents.

## Supplements to the Public Health Reports

- *2. Indoor Tropics. The Injurious Effect of Overheated Dwellings, Schools, etc. By J. M. Eager. 1913. 8 pages. 5 cents.
- *3. Tuberculosis: Its Predisposing Causes. By F. C. Smith. 1913. 7 pages. 5 cents.
  - Trachoma: Its Nature and Prevention. By John McMullen. 1913. (Revised 1923.) 6 pages.

- What the Farmer Can Do to Prevent Malaria. By R. H. von Ezdorf. 1914. 6 pages.
- The Summer Care of Infants. By W. C. Rucker and C. C. Pierce. 1914.
   pages.
- Malaria: Lessons on Its Cause and Prevention (for use in schools). By
   H. R. Carter. 1914. 20 pages; 4 plates.
- *21. Scarlet Fever: Prevention and Control. By J. W. Schereschewsky. 1914. (Revised 1922.) 18 pages. 5 cents.
- *24. Exercise and Health. By F. C. Smith. 1915. 7 pages. 5 cents.
- *29. The Transmission of Disease by Flies. By Ernest A. Sweet. 1916. 20 pages; 2 plates. (Revised 1922.) 5 cents.
- 30. Common Colds. By W. C. Rucker. 1917. 4 pages.
- Safe Milk: An Important Food Problem. By Ernest A. Sweet. 1917.
   24 pages.

#### Public Health Bulletins

- *35. The Relation of Climate to the Treatment of Pulmonary Tuberculosis. By F. C. Smith. 1910. 17 pages. (Revised edition.) 5 cents.
  - 37. The Sanitary Privy: Its Purpose and Construction. By C. W. Stiles, 1910. 24 pages; 12 figures.
  - Open-air Schools for the Cure and Prevention of Tuberculosis Among Children. By B. S. Warren. 1912. 20 pages.
  - Safe Disposal of Human Exercta at Unsewered Homes. By L. L. Lumsden, C. W. Stiles, and A. W. Freeman. 1915. 28 pages.
- Typhoid Fever: Its Causation and Prevention. By L. L. Lumsden. 1915. 22 pages.
- 70. Good Water for Farm Homes. By A. W. Freeman. 1915. 16 pages.
- A Sanitary Privy System for Unsewered Towns and Villages. By L. L. Lumsden. 1917. 23 pages.
- *101. Studies of Methods for the Treatment and Disposal of Sewage: Treatment of Sewage from Single Houses and Small Communities. By Leslie C. Frank and C. P. Rynus. 1919. 117 pages. 25 cents.
- *102. A Home-Made Milk Refrigerator. Simple Method of Constructing a Satisfactory Refrigerator with Materials Usually on Hand. By C. Bolduan. 1919. 1 page; 2 plates. 5 cents.
- *103. The Rat: Arguments for Elimination and Methods for Destruction.
  1919. 12 pages. 5 cents.
- 106. Comparison of an Eight-Hour Plant and a Ten-Hour Plant. Studies in Industrial Physiology: Fatigue in Relation to Working Capacity. By Josephine Goldmark, Mary D. Hopkins, Philip S. Florence, and Frederic S. Lee. 1920. 213 pages. 25 cents.
- 110. Synopsis of Child Hygiene Laws of the Several States, Including School Medical-Inspection Laws. By Taliaferro Clark and Selwyn D. Collins. 1921. 58 pages. (Revised May, 1925.)
- Report on Oregon State Survey of Mental Defects, Delinquency, and Dependency. By C. L. Carlisle. 1921. 79 pages.
- 114. Top Minnows in Relation to Malaria Control. Notes on Habits and Distribution. By S. F. Hildebrand. 1921. 34 pages.
- Distribution. By S. F. Hildebrand. 1921. 34 pages.

  *116. Lead Poisoning in the Pottery Trades. By B. J. Newman, W. J. McConnell, O. M. Spencer, and F. M. Phillips. 1921. 223 pages. 35 cents.
  - Rodent Infestation and Rat-Proofing Conditions in Massachusetts
     Seacoast Cities, New York, and Baltimore. By L. L. Williams, E. C. Sullivan, and A. F. Allen. 1922. 38 pages.
- *127. The Epidemiology of Botulism. By J. C. Geiger, K. F. Meyer, and E. C. Dickson. 1922. 119 pages. 15 cents.

- *129. Communicable Diseases and Travel. By Thomas R. Crowder, 1922. 62 pages. 10 cents.
- *131. Section No. 1 of General Report on Ohio River Investigation. A Study of Pollution and Natural Purification of the Ohio River. Plankton and Related Organisms. By W. C. Purdy. 1923. 78 pages. 15 cents.
- 132. Studies of 15 Representative Sewage Plants in the United States. ByE. J. Theriault and H. H. Wagenhals. 1923. 260 pages.
- *134. The Campaign Against Malnutrition. 1923. 37 pages. 5 cents.
  - 135. Railroad Malaria Surveys. 1922. The Missouri Pacific Railroad. By A. W. Fuchs. 1923. 36 pages.
- *136. Report of the Committee on Municipal Health Department Practice, of the American Public Health Association. 1923. 468 pages. 50 cents.
- *138. Tuberculosis Survey of the Island of Porto Rico, October 11, 1922, to April 18, 1923. By J. G. Townsend. 1923. 98 pages. 35 cents.
- *150. Carbon-Monoxide Literature. By R. R. Sayers and Sara J. Davenport. April, 1925. 54 pages. 10 cents.
- 152. A Study of Courses in Health Education. By Myra Hulst Harman and Taliaferro Clark. April, 1925. 53 pages.
- 153. A Study of the Top Minnow Gambusia Holbrooki in its Relation to Mosquito Control. By Samuel F. Hildebrand. May, 1925. 136 pages.

## Reprints from Public Health Reports

- 100. Whooping Cough: Its Nature and Prevention. By W. C. Rucker. 1912.
  7 pages. (Revised 1922.)
- *105. Antimalarial Measures for Farm Houses and Plantations. By H. R. Carter. 1912. 8 pages. 5 cents.
- *122. Rat Proofing: Construction or Repair of Dwellings or Other Buildings. By Friench Simpson. 1913. 11 pages; 10 plates. 5 cents.
- *138. A New Design for a Sanitary Pail. By Victor G. Heiser. 1913. 2 pages; 1 plate. 5 cents.
- Relative Efficiency of Rat Traps: Trap which Proved Most Effective in Manila. By Victor G. Heiser. 1914. 2 pages.
- *170. Prevention of Malaria. How to Screen the Home. By R. H. von Ezdorf. 1914. 6 pages. 5 cents.
- 183. Screening as an Antimalarial Measure. By H. R. Carter. 1914. 12 pages.
- *187. Prevention of Typhus Fever. With Especial Reference to Delousing.

  By Joseph Goldberger and M. H. Neill. 1914. 14 pages. 5 cents.
- 224. Hookworm Disease: Oil of Chenopodium Treatment. By M. G. Motter. 1914. 4 pages.
- *225. The Chemical Disinfection of Water. By Earle B. Phelps. 1914. 10 pages. 5 cents.
- 256. The Limitations to Self-Medication. Uses and Abuses of Proprietary Preparations and Household Remedies. By Martin I. Wilbert. 1915. 6 pages.
- 258. Malaria Control: Drainage as an Antimalarial Measure. By J. A. A. Le Prince. 1915. 11 pages.
- 260. Control of Malaria: Oiling as an Antimosquito Measure. By J. A. A. Le Prince. 1915. 12 pages.
- *349. Hay Fever and Its Prevention. By W. Scheppegrell. 1916. 12 pages; 6 plates. 10 cents.

- *377. Mental Status of Rural School Children: Sanitary Survey in New Castle County, Del.—with a description of the tests. By E. H. Mullan. The Mental Status of Rural School Children of Porter County, Ind. By Taliaferro Clark and W. L. Treadway. 1916. 30 pages. 5 cents.
- *387. Climate and Tuberculosis: Relation of Climate to Recovery. By John W. Trask. 1917. 8 pages. 5 cents.
- 456. The Application of Ozone to the Purification of Swimming Pools. By Wallace A. Manheimer. 1918. 8 pages.
- Pellagra: Its Nature and Prevention. By Joseph Goldberger. 1918.
   (Revised 1921.) 8 pages.
- *504. The Treatment of Sewage from Single Houses and Small Communities. By Earle B. Phelps. 1919. 6 pages; 2 plates. 5 cents.
- *527. Fishes in Relation to Mosquito Control in Ponds. By Samuel F. Hildebrand. 1919. 15 pages; 6 plates. (Revised 1922.) 10 cents.
- 532. A Disposal Station for a Can Privy System. By E. B. Johnson. 1919. 6 pages; 2 plates.
- *545. The Treatment of Hay Fever. By W. Scheppegrell. 1919. 9 pages; 2 plates. 5 cents.
- 552. The Malaria Problem in the South. By H. R. Carter. 1919. 11 pages.
- *554. School Medical Inspection. By Taliaferro Clark. 1919. 6 pages. 5
- 584. Ivy and Sumac Poisoning. By E. A. Sweet and C. V. Grant. 1920. 16 pages; 2 plates. 5 cents.
- *588. Dried Milk Powder in Infant Feeding. By W. H. Price. 1920. 20 pages. 5 cents.
- *595. What Can a Community Afford to Pay to Rid Itself of Malaria? By L. M. Fisher. 1920. 5 pages. 5 cents.
- *622. Children's Teeth, a Community Responsibility. By Taliaferro Clark and H. B. Butler. 1920. 18 pages; 1 plate. 5 cents.
- 625. Sanitary Disposal of Sewage Through a Septic Tank: Simple Construction and Inexpensive Operation for Isolated Dwellings. By H. R. Crohurst. 1920. 8 pages.
- 626. The Bedbug: Relation to Public Health, Habits, Life History, Methods of Control. 1920. 8 pages.
- 645. The Fate of the First Molar. By H. B. Butler. 1921. 6 pages.
- 654. Nutrition in Childhood. By Taliaferro Clark. 1921. 10 pages. (Revised 1922.)
- 655. Guide to Proper Rat-Proofing of Buildings. By C. E. Hauer. 1921. 13
- *661. Evolution and Organization of the Public Health Service. 1921. 12 pages. 5 cents.
- 672. The Standard Treatment for Malaria. By C. C. Bass. 1921. 4 pages.
- *674. Sickness Among School Children: Loss of Time from School Among 6,130 School Children in 13 Localities in Missouri. By S. D. Collins. 1921. 11 pages. 5 cents.
- 682. The Work of the Public Health Service in the Care of Disabled Veterans of the World War. By H. S. Cumming. 1921. 10 pages.
  - 683. School Health Supervision in Minneapolis, Minn. By Taliaferro Clark. 1921. 35 pages.
  - *686. Essentials of Smallpox Vaccination. By J. P. Leake and J. N. Force. 1921. 5 pages. 5 cents.
  - *694. Carbon Monoxide Poisoning in Closed Garages. 1921. 6 pages. 5 cents.
- 698. Diphtheria Immunization. 1921. (Revised 1924.) 6 pages.

- 707. Good Teeth: The Importance of Good Teeth and the Prevention of Decay. 1921. 10 pages.
- 727. The Care of Your Baby. 1922. 40 pages.
- *742. Correcting Physical Defects in School Children. 1922. 16 pages. 5 cents.
  - 750. Heights and Weights of School Children. By Taliaferro Clark, Edgar Sydenstricker, and S. D. Collins. 1922. 22 pages.
- 753. Adenoids. What They Are and How to Treat Them. 1922. 2 pages; 1 plate.
- *754. The Delinquent. By Frank E. Leslie. 1922. 10 pages. 5 cents.
- 778. Diphtheria: Its Prevention and Control. By J. W. Schereschewsky. (Revised edition of Supplement No. 14.) 1922.
- *779. The Posture of School Children in Relation to Nutrition, Physical Defects, School Grade, and Physical Training. By E. Blanche Sterling. 1922. 6 pages. 5 cents.
  - Measles: An Important Disease from the Public Health Standpoint. By
     W. C. Rucker. (Revised edition of Supplement No. 1.) 1922.
- 783. The School Nurse: Her Duties and Responsibilities. By Taliaferro Clark. 1922.
- *789. Dried Milk Powder in Infant Feeding. By Țaliaferro Clark and S. D. Collins. 1922. 5 cents.
- *793. School Absence of Boys and Girls. By Selwyn D. Collins. October 27, 1922. 5 pages. 5 cents.
  - 798. Nutrition and Education. By E. Blanche Sterling. November 10, 1922. 10 pages.
  - 809. Weight and Height as an Index of Nutrition. By Taliaferro Clark, Edgar Sydenstricker, and Selwyn D. Collins. January 12, 1923. 22 pages.
- 816. Health Scoring of School Children. By Taliaferro Clark and Edith B. Lowry. February 16, 1923. 12 pages.
- *819. The Trachoma Problem in the State of Minnesota. By Taliaferro Clark.
  March 2, 1923. 21 pages. 5 cents.
- 821. Changes in a Small Town Brought About by the Health Department. ByB. B. Bagby. March 9, 1923. 4 pages.
- 825. Schick Tests and Immunization Against Diphtheria in the Eighth Sanitary District of Vermont. By C. W. Kidder. March 30, 1923. 4 pages.
- *829. Tuberculosis: Its Predisposing Causes. By F. C. Smith. April 23, 1923. 8 pages. 5 cents.
- *832. The Prevention of Simple Goiter. By O. P. Kimball, M. D. April 27, 1923. 11 pages. 5 cents.
- 840. The Physical Care of Rural School Children. By Taliaforro Clark. June 1, 1923. 12 pages.
- *842. Indices of Nutrition. Application of certain standards of nutrition to 506 native white children without physical defects and with "good" or "excellent" nutrition as judged by clinical evidence. By Taliaferro Clark, Edgar Sydenstricker, and Selwyn D. Collins. June 8, 1923. 35 pages. 5 cents.
- *850. The National Health Council as an Aid to Organized Health Agencies.

  July 6, 1923. 8 pages. 5 cents.
- 856. Dengue Fever: Etiology, Epidemiology, Transmission, etc. By C. Armstrong. August 3, 1923. 35 pages.
- *864. Automobile Cost in Rural Health Work. Report on operation of automobiles in cooperative rural health work in Virginia. By H. McG. Robertson. August 31, 1923. 5 pages. 5 cents.

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- 867. Application of Partial Correlation to a Health Problem. By Frank M
  Phillips and Faye Hollis Roberts. September 14, 1923. 13 pages.
- *869. Vaccination Technique and Certification: An Experiment in Making Vaccination and Insurance Against Delay as well as a Protection Against Disease. By S. B. Grubbs. September 21, 1923. 6 pages. 5 cents.
- *873. Health Conditions Among Chemical Workers with Respect to Earnings. By Frank M. Phillips, Ph. D., and Gertrude A. Sager, M. A. October 5, 1923. 4 pages. 5 cents.
- *874. Pellagra Prevention by Diet among Institutional Inmates. By Joseph Goldberger, C. H. Waring, and W. F. Tanner. October 12, 1923. 10 pages. 5 cents.
  - 877. Results in a Three-Year Trachoma Campaign Begun in Knott County, Ky., in 1913, as Shown by a Survey Made in the Same Locality 10 Years Later. By John McMullen. October 26, 1923. 6 pages.
  - 878. The Spleen Rate of School Boys in the Mississippi Delta. By K. F. Maxcy and C. P. Coogle. October 26, 1923. 8 pages.
  - 882. Fundamentals of Rural Health Work. By W. F. Draper. November 16, 1923. 8 pages.
  - 884. Collection of Morbidity Data and Other Sanitary Information by the United States Public Health Service. By Brock C. Hampton. November 30, 1923. 16 pages.
- *890. The Program for Oral Hygiene in the Public Schools of Minneapolis, Minn. By F. Denton White, D. D. S. December 21, 1923. 6 pages. 5 cents.
- 893. Methods of Administering Iodine for Prophylaxis of Endemic Goiter. By Robert Olesen. January 11, 1924. 11 pages. 5 cents.
- *895. A study of the Treatment and Prevention of Pellagra. By Joseph Goldberger and W. F. Tanner. January 18, 1924. 21 pages. 5 cents.
- *896. The Importance of Our Knowledge of Thyroid Physiology in the Control of Thyroid Diseases. By Taliaferro Clark. January 18, 1924. 4 pages. 5 cents.
- 901. Is the Prophylactic Use of Diphtheria Antitoxin Justified? By James A. Doull and Roy P. Sandidge. February 15, 1924. 12 pages.
- *905. Factors in the Mental Health of Girls of Foreign Parentage. A study of 210 girls of foreign parentage who received advice and assistance from a social agency, 1919-1922. By Mary C. Jarrett. March 7, 1924. 26 pages. 5 cents.
  - 906. Malta Fever. Cattle suggested as a possible source of infection, following a serological study of human serums. By Alice C. Evans. March 14, 1924. 18 pages.
- *907. The New Baldwin-Wood Weight-Height-Age-Tables as an Index of Nutrition. By Taliaferro Clark, Edgar Sydenstricker, and Selwyn D. Collins. March 14, 1924. 8 pages. 5 cents.
- 908. Absenteeism Among White and Negro School Children in Cleveland, 1922-23. By G. E. Harmon, M. D., and G. E. Whitman, A. B. March 21, 1924. 9 pages.
- 912. Some Tendencies Indicated by the New Life Tables. By Rollo H. Britten. April 11, 1924. 13 pages. 5 cents.
- 917. Factors in the Mental Health of Boys of Foreign Parentage. A study of 240 Boys of Foreign Parentage Known to a Child Welfare Agency 1916–1923. By Mary C. Jarrett. April 25, 1924. 21 pages.
- 948. Relative Efficiency of Methods of Sterilization of Milk Bottles at Pasteurization Plants in Minnesots. By H. A. Whittaker, R. W. Archibald, and L. Shere. May 2, 1924. 8 pages.

- 924. The Prevalence and Trend of Drug Addiction in the United States and Factors Influencing It. By Lawrence Kolb and A. G. DuMez. May 23, 1924. 26 pages.
- 926. Health by Radio. Vitamins. May 30, 1924. 5 pages.
- Absenteeism Because of Sickness in Certain Schools in Cleveland, 1922– 1923. By G. E. Harmon and G. E. Whitman. June 6, 1924. 8 pages.
- The Prevention and Treatment of Hay Fever. By William Scheppegrell. June 20, 1924. 12 pages.
- 933. Past Incidence of Certain Communicable Diseases Common Among Children. Occurrence of Measles, Whooping Cough, Mumps, Chicken Pox, Scarlet Fever, and Diphtheria, among School Children in Various Localities in the United States. By Selwyn D. Collins. June 27, 1924. 16 pages.
- 936. Effect of Oil Pollution of Coast and Other Waters on the Public Health. By Committee Consisting of F. W. Lane, A. D. Bauer, H. F. Fisher, and P. N. Harding. July 11, 1924. 6 pages.
- 939. The Legal Aspects of Milk Control. By James A. Tobey. July 18, 1924. 8 pages.
- 940. Cancer and Proprietary Cures. July 18, 1924. 8 pages.
- P41. Thyroid Survey of 47,493 Elementary-School Children in Cincinnati.
   By Robert Olesen. July 25, 1924. 26 pages.
- 942. A note on the Relationship of Tonsillectomy to the Occurrence of Scarlet Fever and Diphtheria. By James A. Doull. August 1, 1924. 8 pages.
- 945. Sanitary Engineering Courses of Engineering Colleges in the United States. By Isador W. Mendelsohn. August 15, 1924. 8 pages.
- 947. The Income Cycle in the Life of the Wage Earner. By Edgar Sydenstricker, Wilford I. King, and Dorothy Wiehl. August 22, 1924. 8 pages.
- *948. Correspondence and Reading Courses in Public Health. August 22, 1924. 8 pages. 5 cents.
- *950. Pellagra in Relation to Milk Supply in the Household. By G. A. Wheeler.
  August 29, 1924. 4 pages. 5 cents.
  - 951. A Plea for More Attention to the Nutrition of the School Child. By Taliaferro Clark. August 29, 1924. 9 pages.
  - 952. Protection of Small Water Supplies Used by Railroads. By O. E. Brownell. September 5, 1924. 10 pages.
- *954. Causes of Absences in One Grade of Fifteen Public Schools in Washington, D. C. By Louise Taylor-Jones. Scptember 12, 1924. 10 pages, 5 cents.
- 955. Thyroid Enlargement Among Montana School Children. With Notes on the Possible Influence of the Place of Residence and the Use of Vegetables and Drinking Water Upon the Condition. By Fred T. Foard. September 12, 1924. 5 pages.
- 956. Per Capita Medicinal Requirements of Narcotics. Data Secured in a Narcotic Survey of Allegheny County, Md. By A. C. DuMez. September 12, 1924. 4 pages.
- 957. Morbidity Among School Children in Hagerstown, Md. Cases of Illness and Days Lost from School on Account of Illness Among White School Children During the School Months December, 1921, to May, 1923, inclusive. By Selwyn D. Collins. September 19, 1924. 32 pages.
- 961. Developments in the Field of Mental Testing. By Helen H. Dolan. October 3, 1924. 18 pages.
- 962. Mortality from Malaria 1919–1923. By Kenneth F. Maxcy. October 10, 1924. 4 pages.

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- *963. Thyroid Enlargement Among Minnesota School Children. Prevalence as Shown by a Survey of 4,061 Children in 13 localities in 1923. By Robert Olesen and Taliaferro Clark. October 10, 1924. 14 pages. 5 cents.
- 965. Outbreak of Scarlet Fever Caused by Milk-Borne Infection. By Arthur Jordan. October 17, 1924. 7 pages.
- 966. Epidemiological Study of the Minor Respiratory Diseases by the Public Health Service. (Preliminary and Progress Report.) By J. G. Townsend. October 24, 1924. 12 pages.
- *971. A Statewide Milk Sanitation Program. By Leslie C. Frank. November 7, 1924. 23 pages. 5 cents.
- 975. The Eyesight of the School Child as Determined by the Snellen Test.

  A Statistical Study of the Results of Vision Tests of 9,245 Native White Children in New York State, Delaware, South Carolina, and Frederick County, Md., and of 2,636 White Children in Cecil County, Md. By Selwyn D. Collins. November 28, 1924. 15 pages.
- 978. A Survey of Public Health Nursing in the State Departments of Health.
  Compiled by Lucy Minnigerode. December 12, 1924. 27 pages.
  979. Variation in Eyesight at Different Ages, as Determined by the Snellen
- 979. Variation in Eyesight at Different Ages, as Determined by the Snellen Test. A Statistical Study of the Results of Vision Tests of 4,862 Native White School Boys and 6,479 Male White Industrial Workers in the United States. By Selwyn D. Collins and Rollo H. Britten. December 19, 1924. 6 pages.
- *980. Oil Pollution at Bathing Beaches. Prepared by a Committee Consisting of F. W. Lane, A. D. Bauer, H. F. Fisher, and P. N. Harding. December 19, 1924. 14 pages. 5 cents.
- 983. Endemic Goiter in Colorado. By Robert Olesen. January 2, 1926. 22 pages.
- 984. A Study of the Pellagra-Preventive Action of Dried Beans, Casein, Dried Milk, and Brewers' Yeast, with a Consideration of the Essential Preventive Factors Involved. By Joseph Goldberger and W. F. Tanner. January 9, 1925. 27 pages.
- 991. The Vacuum-Cyanide Method of Delousing Clothing and Baggage.
  Experimental Data upon Which the Procedure at the New York
  Quarantine Station is Based. By H. E. Trimble. February 20, 1925.
  21 pages.
- 993. Incidence of Sickness Among White School Children in Hagerstown, Md. Frequency of Illness During the School Year 1923-24, and a Summary of the Experience for 1921-1924. By Selwyn D. Collins. February 27, 1925. 14 pages.
- 995. Drainage Ditches Covered Economically. Concrete Pipe Manufactured and Laid Cheaply in Emporia, Va. March 13, 1925. 8 pages.
- 999. Foot Defectiveness in School Children. March 27, 1925. 4 pages.
- 1003. Public Health Service Publications. A List of Publications Issued During the Period April, 1924, to March, 1925. April 10, 1925. 7 pages.
- 1008. Some Effects of High Environmental Temperatures on the Organism. By Frederick B. Flinn. May 1, 1925. 29 pages.
- 1013. Status of Vaccination in American Colleges. By Robert T. Legge. May 22, 1925. 5 pages.
- 1019. Canyon Automobile Camp, Yellowstone National Park. By Isador W. Mendelsohn. June 12, 1925. 12 pages.
- Mendelsohn. June 12, 1925. 12 pages.

  1020. An Outbreak of Typhoid Fever Caused by Milk-Borne Infection. By
  L. L. Lamsden, June 19, 1925. 15 pages.
- 1921. Tetanus in the United States Following the Use of Bunion Pads as a Vaccination Dressing. By Charles Armstrong. June 26, 1925. 6 pages.

- 1022. Studies of Impounded Waters in Relation to Malaria. By E. H. Gage. June 26, 1925. 19 pages.
- 1029. Drinking Water Standards. Standards Adopted by the Treasury Department June 20, 1925, for Drinking and Culinary Water Supplied by Common Carriers in Interstate Commerce. April 10, 1925. 28 pages.
- 1031. Strabismus and Defective Color Sense Among School Children. By Selwyn D. Collins. July 17, 1925. 9 pages.
- 1046. Studies of Impounded Waters in Relation to Malaria. The Trend of Malaria in Horse Creek Valley, Aiken County, S. C. By E. H. Gage. October 16, 1925. 9 pages.
- 1049. A Demonstration at Tarboro, N. C., of a System for Sanitary Control of Milk Supplies of Towns and Small Cities. With special reference to operation of a municipal pasteurization plant. By K. E. Miller. November 6, 1925. 12 pages.
- *1050. Public Health Nursing. By J. G. Townsend. November 6, 1925. 8 pages. 5 cents.
- 1052. Water Hyacinth and the Breeding of Anopheles. By M. A. Barber and T. B. Hayne. November 20, 1925. 6 pages.
- 1053. Heredity and Culture as Factors in Body Build. By C. B. Davenport and Louise A. Nelson. November 27, 1925. 5 pages.
- 1054. Results of Schick Tests in California. By Frank L. Kelly, Ida May Stevens, and Margaret Beattie. December 4, 1925. 14 pages.
- 1058. Cancer Mortality in the Ten Original Registration States. Trend for the period 1900-1920. By J. W. Schereschewsky. January 1, 1926. 12 pages.
- 1059. Smallpox Vaccination as Carried out at Lehigh University. By Stanley Thomas. January 8, 1926. 8 pages.
- 1060. Sickness Among Industrial Employees. Incidence and duration of disabilities from the important causes lasting longer than one week among 133,000 persons in industry in 1924, and a summary of the experience for 1920-1924. January 22, 1926. 19 pages.
- 1063. Stream Pollution. I. A Review of the Work of the United States Public Health Service in Investigations of Stream Pollution. By W. H. Frost. January 15, 1926. II. The Rate of Deoxygenation of Polluted Waters. By Emery J. Theriault. February 5, 1926. III. The Rate of Atmospheric Reaeration of Sewage-Polluted Streams. By H. W. Streeter. February 12, 1926. IV. Quantitative Studies of Bacterial Pollution and Natural Purification in the Ohio and the Illinois Rivers. By J. K. Hoskins. February 19, 1926. 51 pages.
- 1065. A Community Health Program. By Hugh S. Cumming. February 26, 1926. 10 pages.

#### Miscellaneous Publications

- *17. Prevention of Disease and Care of the Sick. 3d edition. By W. G. Stimpson. First Aid to the Injured. By M. H. Foster. 1925. 318 pages. Paper bound, 75 cents; cloth bound, \$1.
- *27. Tuberculosis: Its Nature and Prevention. By F. C. Smith. 1921. 12 pages; 1 plate. (Reprint of Public Health Bulletin No. 36.) 5 cents.
- *28. Getting Well: Some Things Worth Knowing about Tuberculosis. By medical officers of the Public Health Service, private specialists, and patients. Edited and arranged by Nathan Barlow. 1922. 5 cents.

#### **Posters**

^{1.} The House Fly.

^{4.} Influenza.

## Venereal-Disease Publications

#### BULLETINS

- Manpower. A pamphlet for men giving the facts of venereal disease and some material on sex hygiene.
- 7. The Problem of Sex Education in Schools. For educators.
- 22a. The Place of the Church in the Control of Venereal Disease.
  - Important Confidential Information. For persons infected with venereal disease.
- 37. A Message from the Government to the Churches of the United States.
- 39. Venereal Disease Ordinances.
- 43. The Public Health Nurse and Venereal-Disease Control.
- 47. The Percentage of Venereal Diseases among Approximately the Second Million Drafted Men—by cities.
- 51. Fighting Venereal Diseases. Contains information for men and prepared for use in barber shops.
- 53. Is This Enough? Suggests methods of cooperation in the program of combating venereal disease.
- 54. The Case Against the Red-Light District.
- 55. Keeping Fit. For older boys. Tells how to keep in prime physical condition and includes essential information regarding sex hygiene.
- The Wonderful Story of Life. A pamphlet for parents to read to little children.
- 60. Healthy, Happy Womanhood. A pamphlet which sets forth in simple language facts regarding sex and venereal diseases essential to the welfare of girls and young women.
- 61. Sex Education in the Home. For parents.
- 62. Outdoing the Ostrich. Sets forth the threefold plan for combating venereal disease.
- 63. The Facts about Venereal Diseases. For Men. Contains in condensed form much of the information in "Manpower."
- 64. A Square Deal for the Boy in Industry. For those engaged in work with boys. Outlines a method of reaching employed boys with the "Keeping Fit" exhibit.
- 66. What Representative Citizens Think About Prostitution.
- 67. Syphilis and Gonorrhea: Diseases of Youth.
- 68. An Open Forum on the "Open House."
- 69. The Status of Sex Education in Schools.
- 70. Dividends from Venereal-Disease Control.
- 71. You and Your Boy. For parents.
- 72. The Need for Sex Education. Contains a list of useful books.
- *73. Placard—Warning Against Venereal Diseases. (For use by railroads, industrial plants, etc. Prices quoted by the Superintendent of Documents, Government Printing Office.)
- *74. The Need for Sex Education. Includes lists of carefully selected books.

  1 page. 5 cents.
- *75. High Schools and Sex Education. A manual for teachers, setting forth the nature of sex education and describing the courses into which a limited amount of sex information may be introduced when well-qualified teachers are available. 98 pages (buckram). 50 cents.
- *76. Venereal-Disease Handbook for Community Leaders. 65 pages (buckram). 50 cents.

#### REPRINTS FROM PUBLIC HEALTH REPORTS

- 354. Syphilis. By L. L. Williams. August 4, 1916. 13 pages.
- 378. Prevalence of Syphilis, as Indicated by the Routine Use of the Wassermann Reaction. By William M. Bryan and James F. Hooker. November 24, 1916. 2 pages.
- 447. The Control of Venereal Diseases. January 4, 1918. 3 pages.
- 450. Venereal-Disease Legislation. Showing the trend. January 18, 1918. 30 pages.
- 455. A State-Wide Plan for the Prevention of Venereal Diseases. By Allan J. McLaughlin. February 22, 1918. 16 pages.
- 459. Suggestions for State Board of Health Regulations for the Prevention of Venereal Diseases. Approved by Surgeon General of the Army, Surgeon General of the Navy, and Surgeon General of the Public Health Service. March 29, 1918. 7 pages.
- 468. Progress in Venereal-Disease Control. By J. G. Wilson. May 24, 1918.
  6 pages.
- 474. State and Federal Cooperation in Combating the Venereal Diseases. By J. G. Wilson. June 28, 1918. 6 pages.
- Venercal-Disease Control. Standards for discharge of carriers. July 19, 1918.
   4 pages.
- 485. Regulations for Allotment of Funds for Venereal-Disease Prevention Work. September 13, 1918. 4 pages.
- 515. The Place of "Early Treatment" in the Program of Venereal-Disease Control. April 18, 1919. 2 pages.
- 524. Public Health Service Program for Nation-Wide Control of Venereal Diseases. By C. C. Pierce. May 16, 1919. 8 pages.
- 542. Antivenereal Disease and Sex Hygiene Program for the Colored Population. By Roscoe C. Brown. July 18, 1919. 7 pages.
- Venereal-Disease Control Activities. By C. V. Herdliska. October 10, 1919. 6 pages.
- 574. The Value of Detention as a Reconstruction Measure. By C. C. Pierce. November 28, 1919. 5 pages.
- 609. Some Possibilities in the Statistical Analysis of Case Reports of Venereal Diseases. By C. C. Pierce and E. Sydenstricker. August 27, 1920. 10 pages.
- 630. Venercal-Disease Incidence at Different Ages. Tabulation of 8,413 case reports. By Mary L. King and Edgar Sydenstricker. December 24, 1920. 18 pages.
- 637. Syphilis as a Cause of Insanity. By Elise Donaldson. January 21, 1921. 8 pages.
- 685. All-America Conference on Venereal Diseases. Proceedings and resolutions. By Charles Bolduan. July 15, 1621. 44 pages.
- 693. Control of Venereally Diseased Persons in Interstate Commerce. By David Robinson. September 9, 1921. 8 pages.
- 695. Value of Certain Inquiries on Venerell-Disease Case Reports—A study of 8,413 case reports in Indiana. September 16, 1921. 15 pages.
- 696. Syphilis and Infant Deaths. By Millard Knowlton. September 23, 1921. 10 pages.
- 718. Program for Statistics of Venereal Diseases. By L. I. Dublin and M. A. Clark. December 16, 1921. 20 pages.
- Mortality from Syphilis. 1,183 autopsies in New York. December 30, 1921. 8 pages.
- 765. The Public Health Institutes, 1922. June 30, 1922. 4 pages.

- 787. Venercal-Disease Social Service in Plainfield, N. J. By A. J. Casselman. September 22, 1922. 10 pages.
- 794. An Analysis of 10,000 New Jersey Reports of Gonorrhea and Syphilis. By A. J. Casselman. October 27, 1922. 4 pages.
- 847. Incidence of Venereal Diseases Among American Seamen in the Orient. By M. R. King, June 29, 1923. 4 pages.

## CARD EXHIBITS

Adolescence and Sex Education—34 cards, 9 by 12 inches. For teachers. exhibit is not for sale, but may be borrowed from many of the State departments of health and from the United States Public Health Service.

*The Venereal Disease Menace—50 cards, 9 by 12 inches. For adults. purchased from the Superintendent of Documents, Washington, D. C. \$1.

#### PERIODICAL PUBLICATION

*Venereal Disease Information—A monthly publication. Presents the medical aspects of venereal-disease control work. 5 cents per copy. Subscription price, 50 cents per year.

# DEATHS DURING WEEK ENDED APRIL 3, 1926

Summary of information received by telegraph from industrial insurance companies for week ended April 3, 1926, and corresponding week of 1925. (From the Weekly Health Index, April 6, 1926, issued by the Bureau of the Census, Department of Commerce)

	April 3, 1926	Week 1925
Policies in force	63, 940, 731	59, 279, 062
Number of death claims		12, 622
Death claims per 1,000 policies in force, annual rate.	13. 0	11. 1

Deaths from all causes in certain large cities of the United States during the week ended April 3, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, April 6, 1926, issued by the Bureau of the Census, Department of Commerce)

		ded Apr. 1926	Annual death	Deaths ye	Infant mortality	
City ′	Total deaths	Death rate ¹	rate per 1,900 cor- respond- ing week 1925	Week ended Apr. 3 1926	Corre- sponding week, 1925	rate, week ended Apr. 3, 1926 2
Total (68 cities)	9, 811	17. 7	14, 7	1, 170	918	8 96
Akron. Albany 4 Atlanta. White.	39 68 82 38 44	30. 1	19.9	7 11 11 4	3 8 10	74 231
Colored Baltimore 4 White. Colored Birmingham	247 188 59 65 23	(5) 16. 2 (5) 16. 5	17.4 19.3	7 17 12 5 5	23	50 43 81
White	23 42	(A)	19.3	3 2	10	

Annual rate per 1,000 population.

Deaths under 1 year per 1,000 births. Cities left blank are not in the registrat:on area for births.

Data for 63 cities.

Data for 63 cities.

Deaths for week ended Friday, Apr. 2, 1926.

In the cities for which deaths are shown by color, the colored population in 1920 constituted the following gereentages of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans, 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Bachmond 32, and Washington, D. C., 25.

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Deaths from all causes in certain large cities of the United States during the week ended April 3, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, April 6, 1926, issued by the Bureau of the Census, Department of Commerce)—Continued

	Week end	led Apr. 926	Annual death	Deaths ye		Infant mortality
City	Total deaths	Death rate	rate per 1,000 cor- respond- ing week 1925	Week ended Apr. 3, 1926	Corresponding week, 1925	rate, week ended Apr. 3, 1926
BostonBridgeport	325	21.7	17. 8	36	31	101
Bridgeport	64	24. 9		5 34	5 24	85 142
Buffalo Cambridge	257 53	23. 1	14.3 12 2	9	24	142
Comdon	44	17.8	10. 9	8	2	135
Chicago 1	920	16.0	14 0	108	109	96
Cincinnati Cleveland	188 357	23 9 19.9	20. 1 11. 4	24 47	13 25	149 122
Columbus	90	16.8	17. 0	11	8	101
Columbus Dallas	54	14.6	14.6	8	4	
WhiteColored	41			6		
Dayton	13 49	( ⁵ ) 14. 8	12.7	2 10	1	157
Denver	86	16 0	19.3	13	8	107
Des Moines	27	9.4	12.6	2	1	33
Detroit	455	19.0	12.8	2 78 3 5	55	126
Duluth El Paso	19 33	9. 0 16. 4	10.9 13.4	3 5	1	70
Erie	37	10. 2	10. 2	ğ	8 3	171
ErieFall River 4	37	15.0	20 2	11	14	160
Fint. Fort Worth White.	27	10.8	9.2	7	5 3	116
White	44 32	15. 1	10.6	10	5	
Colored	12	(5)		8 2		
Grand Rapids	46	( ⁵ ) 15 6	11.5	4 5	7	58
Houston	56	17.7	14.9	5	1	
WhiteColored	32 24	(5)		1 4		
Indianapolis	116	(5) 16. 9	14.7	11	14	81
White	93			8		. 68
Colored Indianapolis White Colored Jacksonville, Fla	23 54	(5) 26.8	16.4	3 5	1	. 165 104
W 1111.6	25	20.0	10.4	2		65
Colored	25 29			8 3 5 2 3 17		. 172
Jersey City Kansas City, Kans	127	21.0	14.2	17	8	121
White	38 22	17.1	16.6	6 2	3	104
Colored	16	(5)		4		525
Colored Kansas City, Mo	139	(5) 19.7	16.7	17	12	
Los Angelos	223			20	19	138
White	95 71	16.4	16.2	16 11	,	110
Los Angelos Louisville White Colored	24	(5) 21.7		5		314
Loweli	.1 46	21.7	15.1	10	5	180
Lynn Memphis	29 75	14.7 22.4	11.1 24.2	1 5	2 7	26
White	34	22.4	24. 2	2	l	
Colored	A1	(5) 14. 4		3		
Milwaukce Minneapolis Nashyile	. 139	14.4	13.9	21	14	97
Minneapolis	105	12. 9 20. 3	17.0 23.3	12	20	67
White	32	20.0	25. 5	4		
Colored	21 59	(b) 25. 7		4		
New Bedford	. 59	25.7	17.0	11	12	191
New Haven New Orleans	82 167	23. 9 21. 0	16.9 18.1	5 13	9 15	68
White Colored	97		10.1	6		
Colored	70	(8)				
New York Bronx Borough	2,026	18.0 15.1	13.4	244 26	185 23	99
Brooklyn Borough	719	17.0	12.4	99	61	100
Manhattan Borongh	. 830	22.3	17.1	93	88	100 100 100 70
	177	1 12 0	9.6	22	12	1 100
Queens Borough Richmond Borough	47	12.9 17.7 15.7	14.0	4	ī	1 22

⁴ Deaths for week ended Friday, Apr. 2, 1926.
⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kansa, 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended April 3, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, April 6, 1926, issued by the Bureau of the Census, Department of Commerce)—Continued

	Weck en	ded Apr. 1926	Annual death rate per	Deaths ye	Infant mortality	
City	Total deaths	Death rate	1,000 cor- respond- ing week 1925	Week ended Apr. 3, 1926	Corresponding week, 1925	rate, week ended Apr. 3, 1926
Norfolk	37 166 36 63 31 39 43 46 15 80 53 125 75 50 26	(*) 10.7 18.5 10.3 15.0 25.3 10.9 30.4 14.8 (*) 16.5 21.0 16.3 9.6 15.8 18.2 15.5 20.2 16.3 18.7 15.2 20.2 16.3 18.7 15.4 28.2 15.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5	12.5 15.3 9.9 13.9 19.2 14.4 16.0 12.6 13.8 17.6 8.4 15.5 19.7 16.7 15.2 12.1 15.8 15.8 15.9 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0	4 1 3 4 4 4 5 4 4 4 5 4 4 5 4 4 6 6 6 2 2 11 1 2 3 3 3 7 0 9 3 3 11 7 4 4 4 7 7 9 4 4 7	2 3 3 4 64 255 77 7 5 5 6 2 2 5 5 4 4 3 3 10 0 4 8 8 2 2 2 2 3 3 10 10 4 2 2 2 2 3 3 10 10 10 10 10 10 10 10 10 10 10 10 10	74 30 149 46 52 75 85 150 31 174 101 29 245 48 83 83 28 66 66 58 28 0 70 43 43 87 87 87 87 87 80 87 80 87 80 88 80 80 80 80 80 80 80 80 80 80 80

⁴ Deaths for week ended Friday, Apr. 2. 1926. ⁸ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31, Bultimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans, 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.

# PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

# UNITED STATES

## CURRENT WEEKLY STATE REPORTS

These reports are preliminary and the figures are subject to change when later returns are received by the State health officers

# Reports for Week Ended April 10, 1926

ALABAMA	_	ARKANSAS—continued	
	Cases		Cases
Cerebrospinal meningitis		Scarlet fever	. 7
Chicken pox		Smallpox	
Diphtheria		Trachoma	
Influenza		Tuberculos:s	. 7
Lethargic encephalitis		Typhoid fever	_ 3
Malaria		Whooping cough	- 50
Measles		CALIFORNIA	
Mumps		CALIFORNIA	
Pellagra		Cerebrospinal meningitis:	
Pneumonia		Los Angeles	. 1
Poliomyelitis		San Francisco.	. 1
Scarlet fever		Chicken pox.	
Smallpox	. 42	Diphtheria	
Tetanus	. 1	Influenza	_ 30
Tuberculosis	. 51	Measles	
Typhoid fever		Mumps	
Whooping cough	. 29	Poliomyelitis-Los Angeles County	
		Scarlet fever	
ARIZONA		Smallpox:	
Chicken pox	- 5	Los Angeles	. 31
Diphtheria		Oakland	
Influenza		Scattering.	
Measles		Typhoid fever	
Mumps		Whooping cough	
Pneumonia	. 2		
Scarlet fever	. 9	CULORADO	
Trachoma	. 1	Chicken pov	
Tuberculosis	. 68	Diphtheria	_ 28
Typhoid fever	. 5	Influenza	_ 52
Whooping cough		Lethargic encephalitis	
		Measles.	
ARKANSAG		Mumps	
Chicken pox		Pneumonia	
Diphtheria		Poliomyelitis	_ 1
Influenza		Puerperal septicemia	
Malaria		Scarlet fever	
Measles		Smallpox	
Mumps	. 22	Tuberculosis	_ 29
Ophthalmia neonatorum	. 1	Typhoid fever	. 4
Peliaga	. 5	Whooping cough	_ 108

CONNECTICUT	Cases	' GEORGIA—continued	Cases
Cerebrospinal meningitis		Measles	256
Chicken pox		Mumps	
Conjunctivitis (infectious)		Pellagra	
Diphtheria		Pneumonia	-
German measles		Scarlet fever	
Influenza		Septic sore throat	
Lethargic encephalitis		Smallpox	-
Measles		Tuberculosis	
Mumps		Typhoid fever	
Paratyphoid fever		Whooping cough	
Pneumonia (broncho)			
Pneumonia (lobar)		OHADI	
Scarlet fever		Cerebi ospinal nieningitis:	
Tuberculosis (pulmonary)		American Falls	. 1
Typhoid fever		Burley	
Whooping cough		Moscow	
		New Meadows	
DELAWARE		Crofino	
Cerebrospinal meningitis	. 1	Chicken pox	
Chicken pox		Diphthena	
Diphtheria		Influenza	
Influenza		Jaurdice (epidemic).	
Measles		Measles	
Mumps	. 1	Mumps	
Ophthalmia neonatorum	. 1	Pneumonia	
Pneumonia	_ 3	Scarlet fever	
Searlet fever	. 6	Smallpox	
Tuberculosis	. 2	Trachoma	_
Whooping cough	. 9	Tuberculosis	
DISTRICT OF COLUMBIA		Typhoid fever	
DISTRICT OF COLUMBIA		Whooping cough	
Chicken pox		ILLINOIS	
Diphtheria		ILLINOIS	
Influenza		Cerebrospinal meningitis:	
Measles		Cook County	. 2
Pnettinonia		Fayette County	. 1
Scarlet fever		Diphtheria	
Tuberculosis		Influenza.	
Typhoid fever		Lethargic encephalitis—Cook County	
Whoeping cough	. 43	Measles	
FLORIDA		Pneumonia.	
		Poliomyelitis—Cass County	
Chicken pox		Scarlet fever	. 367
Diphtheria		Smallpox.	
German measles		Bond County	
Malaria		Saline County	
Measles		Scattering	
Mumps		Tuberculosis	
Paratyphoid fever		Typhoid fever	
Pneumonia		Whooping cough	. 171
Scarlet fever		INDIANA	
Smallpox		Chicken pox	. 46
Tuberculosis		Diphtheria	
Typhoid fever		Influenza	110
Whooping cough		Measies	
	. 02	Mumps	3
* GEORGIA		Pneumonia	
Chicken pox	. 39	Scarlet fever	
Conjunctivitis (acute)		Smallpox	
Diphtheria		Trachoma	
Hookworm disease		Tuberculosis	
Influenza		Typhoid fever	4
Malaria	. 8	Whooping cough	139

TOWA	G	MARYLAND—continued	~
Chicken pox	Cases 18	Dwanter	Cases
Diphtheria		Ogerman measles	16 4
German measles		Influenza.	124
Influenza		Lethargic encephalitis	1
Measles		Malaria	2
Mumps		Measles	757
Pneumonia		Mumps	188
Scarlet fever		Ophthalmia neonstorum	1
Smallpox		Paratyphoid fever	1
Tuberculosis Whooping cough		Pneumonia (broncho)	86
		Pneumonia (lobar) Scarlet fever	82 41
Kansas		Septic sore throat.	5
Cerebrospinal meningitis	_ 5	Tuberculosis	72
Chicken pox		Typhoid fever	5
Diphtheria	_ 20	Whooping cough	58
German measles			
Influenza		MASSACHUSETTS	
Measles		Cerebrospinal meningitis	5
Mumps		Chicken pox	105
Pneumonia Dichton		Conjunctivitis (suppurative)	5
Poliomyelitis—Dighton		Diphtheria	70
Scarlet fever		German measles	260
Smallpox		Influenza	236
Tetanus	- :	Lethargic encephalitis	2
Trachoma		Malaria	1
Tuberculosis		Measles	944 106
Typhoid fever	_ 4	Mumps Ophthalmia neonatorum	22
Vincent's angina		Pneumonia (lobar)	252
Whooping cough	_ 114	Poliomyelitis	202
LOUISIANA		Scarlet fever	236
		Septic sore throat	1
Cerebrospinal meningitis		Trachoma	2
Diphtheria	:	Tuberculosis (pulmonary)	130
Malaria		Tuberculosis (other forms)	26
Pneumonia	-	Typhoid fever	1
Scarlet fever		Whooping cough	310
Smallpox		MICEIGAN	
Tuberculosis	_ 60	Diphtheria	78
Typhoid fever		Measles	
Whooping cough	_ 7	Pneumonia	
Maine		Scarlet fever	350
Carabragainal maningitie	. 1	Smallpox	
Cerebrospinal meningitis		Tuberculosis	
Diphtheria		Typhoid fever	
German measles		Whooping cough	212
Influenza	489	MINNESOTA	
Measles	_ 329		_
Mumps		Cerebrospinal meningitis	2
Pneumonia		Chicken pox Diphtheria	134 46
Scarlet fever	_ 23	Influenza	5
Septic sore throat		Lethargic encephalitis.	1
Tuberculosis Typhoid fever	- 9 - 8	Measles	505
Vincent's angina	- 8 - 8	Pneumonia	5
Whooping cough	- 8 - 43	Scarlet fever	
	- 20	Smallpox	6
MARYLAND t		Tuberculosis.	
Chicken pox	- 79	Typhoid fever	
Diphtheria	_ 23	Whooping cough	. 24
Week ended Friday.			

MISSISSIPPI	Cases	NEW MEXICO-continuel	Cases
	Jases 1		ases
Cerebrospinal meningitis	13	Diphtheria.	-
Diphtheria	1	German measles Influenza	1
Influenza	300		-
Poliomyelitis	1	Malaria	23
Scarlet fever	6	Measles	14
Smallpox	6	Mumps	18
Typhoid fever	3	Pneumonia	16
MISSOURI		Puerperal septicemia	3
		Scarlet fever	Ş
Cerebrospinal meningitis.	1	Septic sore throat	7
Chicken pox	49	Tuber culosis.	52
Diphtheria	67	Whooping cough	29
Influenza	232	NEW YORK	
Measles	1,110		
Mumps	34	(Exclusive of New York City)	
Ophthalmia neonatorum	1	Cerebrospinal meningitis	ś
Pneumonia	6	Chicken pox	166
Rabies (in animals)	9	Diphtheria	78
Scarlet fever	255	German measics	182
Smallpox	12	Influenza	
Tuberculosis		Lethargic encephalitis	1, 20,
Typhoid fever	16	Measles	1.504
Whooping cough	67	Mumps	124
(, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	Ophthalmia necnatorum	. 1
MONTANA		Pncumonia.	582
Cerebrospinal meningitis	1	Scarlet fever	24
		Septic sore throat	2
Chicken pox		Trachoma	1
Diphtheria	40	Typhoid fever	12
German measles		Vincent's angina	-(
Measles		Whooping cough	397
Mumps			,
Scarlet fever		NGRTH CAROLINA	
Smallpox		Chicken pox	130
Tuberculosis		Diphtheria	1
Whooping cough	10	German measles	39
NEBRASEA		Measles.	21
		Consider former	
est 1.3		Scarlet fever	3
Chicken pox		Septic sore throat	3
Diphtheria	3		3
Diphtheria	3 51	Septic sore throat	:
Diphtheria	3 51 50	Septic sore throat	:
Diphtheria	3 51 50 6	Septic sore throat Smallpox Typhoid fever Whooping cough	3
Diphtheria Influenza Measles Mumps Pneumonia	3 51 50 6 9	Septic sore throat Smallpox Typhoid fever	3
Diphtheria Influenza Measles Mumps Preumonia Poliomyelitis	3 51 50 6 9	Septic sore throat Smallpox Typhoid fever Whooping cough OKLAHOMA	3:
Diphtheria Influenza Measles Mumps Pneumonia	3 51 50 6 9	Septic sore throat Smallpox Typhoid fever Whooping cough OKLAHOMA (Exclusive of Oklahoma City and Tulsa)	13
Diphtheria Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Smallpox	3 51 50 6 0 1 58 13	Septic sore throat Smallpox Typhoid fever. Whooping cough OKLABOMA (Exclusive of Oklahoma City and Tulsa) Chicken pox.	130
Diphtheria Influenza Measles Mumps Pneumonia Poliomyelitis Searlet fever. Smallpox Tuberculosis	3 51 50 6 9 1 58 13	Septic sore throat Smallpox Typhoid fever Whooping cough OKLAHOMA (Exclusive of Oklahoma City and Tulsa) Chicken pox Diphtheria	3 13 2 1
Diphtheria Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Smallpox	3 51 50 6 9 1 58 13	Septic sore throat Smallpox Typhoid fever Whooping cough OKLAHOMA (Exclusive of Oklahoma City and Tulsa) Chicken pox Diphtheria Influenza	3 13 2 1 81
Diphtheria Influenza Measles Mumps Preumonia Poliomyelitis Searlet fever. Smallpox Tuberculosis Whooping cough	3 51 50 6 9 1 58 13	Septic sore throat Smallpox Typhoid fever Whooping cough OKLAHOMA (Exclusive of Oklahoma City and Tulsa) Chicken pox Diphtheria	3 13 2 1 81 2
Diphtheria Influenza Measles Mumps Pneumonia Poliomyelitis Searlet fever. Smallpox Tuberculosis	3 51 50 6 9 1 58 13	Septic sore throat Smallpox Typhoid fever Whooping cough OKLAHOMA (Exclusive of Oklahoma City and Tulsa) Chicken pox Diphtheria Influenza	3 13 2 1 81
Diphtheria Influenza Measles Measles Mumps Preumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Whooping cough	3 51 50 6 9 1 58 13 4	Septic sore throat Smallpox Typhoid fever Whooping cough OKLAHOMA (Exclusive of Oklahoma City and Tulsa) Chicken pox Diphtheria Influenza Malaria	3 13 2 1 81 2
Diphtheria Influenza Measles Measles Mumps Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Whooping cough NEW JERSEY Cerebrospinal meningitis	3 51 50 6 9 1 58 13 4 18	Septic sore throat Smallpox Typhoid fever Whooping cough OKLAHOMA (Exclusive of Oklahoma City and Tulsa) Chicken pox Diphtheria Influenza Malaria Measles	13 13 2 1 81 2 3
Diphtheria Influenza Measles Mumps Pneumonia Poliomyelitis Searlet fever Smallpox Tuberculosis Whooping cough NEW JERSEY Cerebrospinal meningitis Chicken pox	3 51 50 6 9 1 58 13 4 18	Septic sore throat Smallpox Typhoid fever Whooping cough OKLAHOMA (Exclusive of Oklahoma City and Tulsa) Chicken pox Diphtheria Influenza Malaria Measies Mumps	13 13 2 1 81 2 3
Diphtheria Influenza Measles Measles Mumps Pneumonia Poliomyelitis Searlet fever Smallpox Tuberculosis Whooping cough  NEW JERSEY  Cerebrospinal meningitis Chicken pox Diphtheria	3 51 50 6 9 1 58 13 4 18	Septic sore throat Smallpox. Typhoid fever. Whooping cough  OKLAHOMA  (Exclusive of Oklahoma City and Tulsa) Chicken pox. Diphtheria. Influenza. Malaria. Measles. Mumps. Pellagra.	13 13 2 1 81 2 3
Diphtheria Influenza Measles Mumps Pneumonia Poliomyelitis Searlet fever Smallpox Tuberculosis Whooping cough NEW JERSEY Cerebrospinal meningitis Chicken pox	3 51 50 6 9 1 58 13 4 18	Septic sore throat Smallpox. Typhoid fever Whooping cough OKLAHOMA (Exclusive of Oklahoma City and Tulsa) Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia	22 13 81 81 14
Diphtheria Influenza Measles Measles Mumps Pneumonia Poliomyelitis Searlet fever Smallpox Tuberculosis Whooping cough NEW JERSEY Cerebrospinal meningitis Chicken pox Diphtheria Dysentery Influenza	3 51 50 6 9 1 58 13 4 18 2 120 53 11 79	Septic sore throat Smallpox. Typhoid fever. Whooping cough  OKLAHOMA (Exclusive of Oklahoma City and Tulsa) Chicken pox. Diphtheria Influenza. Malaria. Measles Mumps. Pellagra Pneumonia. Scarlet fever. Smallpox.	2 13 2 1 81 2 2 3 1 14 7
Diphtheria Influenza Measles Measles Mumps Pneumonia Poliomyelitis Searlet fever Small pox Tuberculosis Whooping cough  NEW JERSEY  Cerebrospinal meningitis Chicken pox Diphtheria Dysentery Influenza Measles Measles	3 51 50 6 9 1 58 13 4 18 2 120 53 1 79 2,289	Septic sore throat Smallpox. Typhoid fever. Whooping cough  OKLAHOMA (Exclusive of Oklahoma City and Tulsa) Chicken pox. Diphtheria. Influenza. Malaria. Measies. Mumps. Pellagra. Pneumonia. Scarlet fever. Smallpox. Typhoid fever.	2 13 2 14 7 7
Diphtheria Influenza Measles Mumps Pneumonia Poliomyelitis Searlet fever Smallpox Tuberculosis Whooping cough  NEW JERSEY  Cerebrospinal meningitis Chicken pox Diphtheria Dysentery Influenza Measles Pneumonia	3 51 50 6 9 1 58 13 4 18 2 120 53 1 79 2,289	Septic sore throat Smallpox. Typhoid fever. Whooping cough  OKLAHOMA (Exclusive of Oklahoma City and Tulsa) Chicken pox. Diphtheria Influenza. Malaria Measles Mumps Pellagra Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough	2 13 2 1 81 2 2 3 1 14 7
Diphtheria Influenza Measles Measles Mumps Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Whooping cough  NEW JERSEY  Cerebrospinal meningitis Chicken pox Diphtheria Dysentery Influenza Measles Pneumonia Scarlet fever	3 51 50 6 9 1 58 13 4 18 120 53 1 79 2, 229 221	Septic sore throat Smallpox. Typhoid fever. Whooping cough  OKLAHOMA (Exclusive of Oklahoma City and Tulsa) Chicken pox. Diphtheria. Influenza. Malaria. Measies. Mumps. Pellagra. Pneumonia. Scarlet fever. Smallpox. Typhoid fever.	2 13 2 14 7 7
Diphtheria Influenza Measles Measles Mumps Pneumonia Poliomyelitis Searlet fever Small pox Tuberculosis Whooping cough NEW JERSEY Cerebrospinal meningitis Chicken pox Diphtheria Dysentery Influenza Measles Pneumonia Scarlet fever Typhoid fever	3 51 50 6 9 1 58 13 4 18 2 120 5 120 2, 289 2, 289 221 201 8	Septic sore throat Smallpox. Typhoid fever. Whooping cough  OKLAHOMA (Exclusive of Oklahoma City and Tulsa) Chicken pox. Diphtheria Influenza. Malaria. Measles. Mumps. Pellagra Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough	2 13 2 14 7 7
Diphtheria Influenza Measles Mumps Pneumonia Poliomyelitis Searlet fever. Smallpox Tuberculosis Whooping cough  NEW JERSEY  Cerebrospinal meningitis Chicken pox Diphtheria Dysentery Influenza Measles Pneumonia Scallet fever. Typhoid fever Typhoid fever Typhous fever	3 51 50 6 9 1 58 13 4 18 2 120 5 5 120 2,289 221 201 201 8	Septic sore throat Smallpox. Typhoid fever. Whooping cough  OKLAHOMA (Exclusive of Oklahoma City and Tulsa) Chicken pox. Diphtheria Influenza. Malaria. Measles. Mumps. Pellagra Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  OREGON Cerebrospinal meningitis.	22 13 81 22 3 11 14 7
Diphtheria Influenza Measles Measles Mumps Pneumonia Poliomyelitis Searlet fever Small pox Tuberculosis Whooping cough NEW JERSEY Cerebrospinal meningitis Chicken pox Diphtheria Dysentery Influenza Measles Pneumonia Scarlet fever Typhoid fever	3 51 50 6 9 1 58 13 4 18 2 120 5 5 120 2,289 221 201 201 8	Septic sore throat Smallpox. Typhoid fever. Whooping cough  OKLAHOMA  (Exclusive of Oklahoma City and Tulsa) Chicken pox. Diphtheria. Influenza. Malaria. Measles. Mumps. Pellagra. Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  OREGON Cerebrospinal meningitis. Chicken pox.	13d 22 181 22 3 3 1 1 14 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Diphtheria Influenza Measles Measles Mumps Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Whooping cough  NEW JERSEY  Cerebrospinal meningitis Chicken pox Diphtheria Dysentery Influenza Measles Pneumonia Scarlet fever Typhoid fever Typhois fever Typhus fever Whooping cough	3 51 50 6 9 1 58 13 4 18 2 120 5 5 120 2,289 221 201 201 8	Septic sore throat Smallpox. Typhoid fever Whooping cough  OKLAHOMA  (Exclusive of Oklahoma City and Tulsa) Chicken pox Diphtheria. Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox. Typhoid fever Whooping cough  OREGON  Cerebrospinal meningitis. Chicken pox Diphtheria	13d 22 1. 81. 22 3 1. 1. 4. 7 7 1. 3 3
Diphtheria Influenza Measles Measles Mumps Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Whooping cough  NEW JERSEY  Cerebrospinal meningitis Chicken pox Diphtheria Dysentery Influenza Measles Pneumonia Scarlet fever Typhoid fever Typhois fever Whooping cough	3 51 50 6 9 1 1 55 13 4 18 18 120 53 1 79 2,289 221 8 1 80	Septic sore throat Smallpox. Typhoid fever. Whooping cough  OKLAHOMA  (Exclusive of Oklahoma City and Tulsa) Chicken pox. Diphtheria Influenza. Malaria Measles. Mumps Pellagra Pneumonia Scarlet fever. Smallpox Typhoid fever. Whooping cough  OREGON  Cerebrospinal meningitis Chicken pox. Diphtheria Influenza.	13d 22 1. 81. 22 3 1. 14. 77 1. 3
Diphtheria Influenza Measles Measles Mumps Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Whooping cough  NEW JERSEY  Cerebrospinal meningitis Chicken pox Diphtheria Dysentery Influenza Measles Pneumonia Scarlet fever Typhoid fever Typhois fever Typhus fever Whooping cough	3 51 50 6 9 1 1 55 13 4 18 18 120 53 1 79 2,289 221 8 1 80	Septic sore throat Smallpox. Typhoid fever Whooping cough  OKLAHOMA  (Exclusive of Oklahoma City and Tulsa) Chicken pox Diphtheria. Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox. Typhoid fever Whooping cough  OREGON  Cerebrospinal meningitis. Chicken pox Diphtheria	13d 22 1. 81. 22 3 1. 1. 4. 7 7 1. 3 3

OREGON-continued	_	TENNESSEE—continued	<b>~</b>
	Cases	25	Cases 379
Pneumonia		Measles	
Poliomyelitis		Mumps Ophthalmia neonatorum	
Septic sore throat		Pellagra	
Smallpox.		Pneumonia	
Tuberculosis		Poliomyelitis—Bradley County	
Typhoid fever		Scarlet fever	30
Whooping cough		Smallpox:	
		Memphis	10
PENNSYLVANIA		Scattering	14
Anthrax—Philadelphia		Trachoma	
Cerebrospinal meningitis		Tuberculosis	
Chicken pox		Typhoid fever	
DiphtheriaGerman measles	_	Whooping cough	46
Impetigo contagiosa		TEXAS	
Lethargic encephalitis—		Anthrax	1
McKeesport	. 1	Chicken pox.	
Philadelphia		Dengue	12
Measles		Diphtheria	27
Mumps		Influenza	
Ophthalmia neonatorum—Philadelphia		Lethargic encephalitis	1
Pneumonia	302	Measles	
Poliomyelitis—Philadelphia	. 1	Mumps	
Puerperal septicemia	. 4	Pellagra	1
Scables		Pneumonia	
Scarlet fever		Scarlet fever	29
Smallpox		Smallpox	
Tuberculosis		Tuberculosis	
Typhoid fever		Typhoid fever	. 82
Whooping cough	436	Whooping cough	04
RHODE ISLAND		UTAH	
Chicken pox	. 2	Chicken pox	
Diphtheria	. 6	Diphtheria	
German measles		Measles	
Influenza		Mumps	
Measles		PneumoniaScarlet fever	
Mumps			
Pnuemonia		Smallpox Whooping cough	
Scarlet feverTuberculosis			127
Typhoid fever		VERMONT	
Whooping cough		Chicken pox	
		Measles	
SOUTH DAKOTA		Mumps Scarlet fever	
Chicken pox		Whooping cough	
Diphtheria		)	
Influenza		VIRGINIA	_
Measles Mumps		Smallpox	. 3
Pneumonia		WASHINGTON	
Scarlet fever		Cerebrospinal meningitis:	
Smallpox		Stevens County	. 2
Tuberculosis		Tacoma	
Typhoid fever		Chicken pox	65
Whooping cough	5	Diphtheria	. 11
TENNESSEE		German measles	
		Measles.	
Cerebiospinal meningitis:	_	Mumps	
Dyer County		Pneumonia	
Lawrence County		Scarlet fever	
Chicken pox		Smallpox	
Diphtheria Influenza		Tuberculosis	
Malaria		Typhoid fever Whooping cough	
Deaths.	. 0	1 tt wasting andth-revenues assesses assesses	. , 10,
- 1-cacha.	•		

WEST VIRGINIA	~ l	wisconsin—continued	_
	Cases		Çases
Anthrax—Clarksburg	9	Scattering—Continued	
Chicken pox	62	Chicken pox	86
Diphtheria	13	Diphtheria	20
Influenza	465	German measles	63
Measles	589	Influenza	780
Scarlet fever	48	Measles	642
Smallpox	7	Mumps	
Tuberculosis		Ophthalmia neonatorum	-
Typhoid fever		, -	-
Whooping cough		Pneumonia	
is mooking onegations and a second	- 00	Scarlet fever	
WISCONSIN		Smallpox	
Milwaukee:		Tuberculosis	
Chicken pox	108	Whooping cough	99
Diphtheria	. 6		
German measles		WYOMING	
Influenza	. 34	Chicken pox	10
Measles		German measles	
Mumps		Measles	
Pneumonia		Mumps	
		Rocky Mountain spotted fever:	•
Scarlet fever			1
Typhoid fever		Natrena.	_
Whooping cough	. 33	Weston	_
Scattering.		Searlet fever	27
Cerebrospinal meningitis	. 3	Whooping cough	14
Reports for W	eek l	Ended April 3, 1926	
-			
DISTRICT OF COLUMBIA		NORTH DAKOTA-continued	_
•	Cases	j .	Cases
Chielran tow			
Chicken pox		Pneumonia	
Diphtheria		Scarlet fever	77
	18	Scarlet fever	77
Diphtheria	18 5	Scarlet fever	77 1 29
Diphtheria	18 5 431	Scarlet fever	77 1 29 8
Dightheria	18 5 431 53	Scarlet fever	77 1 29 8
Dightheria Influenza Mensies Pneumonia Scarlet fever	18 5 431 53 22	Scallet fever	77 1 29 8 4
Diphtheria Influenza Mensies Pneumonia Scarlet fever Smallpox	18 5 431 53 22	Scallet fever. Small pox Trachoma Tuberculosis Typhoid fever.	77 1 29 8 4
Diphtheria Influenza Mensies Pneumonia Scarlet fever Stuallpox Tuberculosis	18 5 431 53 22 1	Scarlet fever	77 1 29 8 4
Dightheria Influenza Mensles Pneumonia Scarlet fever Stnallpox Tuberculosis Typhoid fever	18 5 431 53 22 1 19 5	Scallet fever. Smallpox Trachoma Tuberculosis Typhoid fever. Whooping cough	77 1 29 8 4 13
Dightheria Influenza Mensies Pneumonia Scarlet fever Smallpor Tuberculosis Typhoid fever Whooping cough	18 5 431 53 22 1 19 5	Scarlet fever	77 1 29 8 4 13
Dightheria Influenza Mensies Preumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NORTH DAKOTA	18 5 431 53 22 1 19 5 38	Scallet fever. Smallpox Trachoma Tuberculosis Typhoid fever. Whooping cough	77 1 29 8 4 13
Dightheria Influenza Mensies Pneumonia Scarlet fever Smallpor Tuberculosis Typhoid fever Whooping cough	18 5 431 53 22 1 19 5 38	Scallet fever	77 1 29 8 4 13
Dightheria Influenza Mensies Preumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NORTH DAKOTA	18 5 431 53 22 1 19 5 38	Scallet fever. Small pox. Trachoma. Tuberculosis Typhoid fever. Whooping cough.  SOUTH DAKOTA Chicken pox. Diphtheria.	77 1 29 8 4 13
Diphtheris Influenza Mensles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NORTH DAKOTA Cerebrospinal meningitis Chicken pox	18 5 431 53 22 1 10 5 38	Scallet fever.  Smallpox Trachoma Tuberculosis Typhoid fever Whooping cough  SOUTH DAKOTA Chicken pox Diphtheria Influenza Measles	77 1 29 8 4 13
Dightheria Influenza Mensles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NORTH DAKOTA Cerebrospinal meningitis Chicken pox Dightheria	18 5 431 53 22 1 19 5 38	Scallet fever. Smallpox. Trachoma. Tuberculosis Typhoid fever. Whooping cough  SOUTH DAKOTA  Chicken pox. Diphtheria Influenza. Measles Mumps.	77 1 29 8 4 13
Diphtheria Influenza Mensles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NORTH DAKOTA Cerebrospinal meningitis Chicken pox Diphtheria German measles	18 5 431 53 22 1 19 5 38	Scallet fever. Small pox. Trachoma. Tuberculosis. Typhoid fever. Whooping cough.  SOUTH DAKOTA  Chicken pox. Diphtheria. Influenza. Measles. Mumps. Pneumonia.	77 1 29 8 4 13 13 8 2 82 128
Dightheria Influenza Mensies Pneumonia Scarlet fever Stnallpox Tuberculosis Typhoid fever Whooping cough NORTH DAKOTA Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza	18 5 431 53 22 1 10 5 38	Scallet fever.  Small pox Trachoma Tuberculosis Typhoid fever. Whooping cough  SOUTH DAKOTA  Chicken pox Diphtheria Influenza Measles Mumps Pneumonia. Scarlot fever.	777 1 29 8 4 13 13 8 2 82 128 14 121
Diphtheria Influenza Mensles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NORTH DAKOTA Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis	18 5 431 53 22 1 10 5 38 10 106 131	Scallet fever.  Small pox Trachoma Tuberculosis Typhoid fever. Whooping cough  SOUTH DAKOTA  Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever. Smallpox	777 1 29 8 4 13 13 8 2 82 128 14 121
Dightheria Influenza Mensles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NORTH DAKOTA Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargio encephalitis Measles	18 5 431 53 22 1 10 5 38 1 6 10 106 131 1	Scarlet fever. Small pox. Trachoma. Tuberculosis Typhoid fever. Whooping cough.  SOUTH DAKOTA  Chicken pox. Diphtheria. Influenza. Measles. Mumps. Pneumonia. Scarlet fever. Smallpox. Typhoid fever.	777 1 29 8 4 13 13 8 2 128 128 14 121 9
Diphtheria Influenza Mensles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NORTH DAKOTA Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis	18 5 431 53 22 1 10 5 38 1 6 10 106 131 1	Scallet fever.  Small pox Trachoma Tuberculosis Typhoid fever. Whooping cough  SOUTH DAKOTA  Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever. Smallpox	777 1 29 8 4 13 13 8 2 128 128 14 121 9
Diphtheria Influenza Mensies Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NORTH DAKOTA Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles Mumps	18 5 431 53 22 1 19 5 38 10 106 131 1 46 51	Scallet fever. Small pox Trachoma Tuberculosis Typhoid fever. Whooping cough  SOUTH DAKOTA  Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever. Small pox Typhoid fever. Whooping cough	777 1 29 8 4 13 13 8 2 128 128 14 121 9
Diphtheria Influenza Mensies Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NORTH DAKOTA Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles Mumps	18 5 431 53 22 1 19 5 38 10 106 131 1 46 51	Scarlet fever. Small pox. Trachoma. Tuberculosis Typhoid fever. Whooping cough.  SOUTH DAKOTA  Chicken pox. Diphtheria. Influenza. Measles. Mumps. Pneumonia. Scarlet fever. Smallpox. Typhoid fever.	777 1 29 8 4 13 13 8 2 128 128 14 121 9
Dightheria Influenza Mensles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NORTH DAKOTA Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargio encephalitis Measles Mumps Report for Wee	18 5 431 53 22 1 19 5 38 10 106 131 1 46 51	Scarlet fever. Small pox. Trachoma. Tuberculosis Typhoid fever. Whooping cough.  SOUTH DAKOTA  Chicken pox. Diphtheria. Influenza. Measles. Mumps. Pneumonia. Scarlet fever. Small pox. Typhoid fever. Whooping cough.	777 1 29 8 4 13 13 8 2 128 128 14 121 9
Dightheria Influenza Mensles Preumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NORTH DAKOTA Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles Mumps Report for Wea	18 5 431 5 8 22 1 1 1 1 1 1 6 8 1 1 1 6 6 1 31 1 1 6 6 5 1 1 6 6 5 1 1 6 6 5 1 1 6 6 6 5 1 1 6 6 6 5 1 1 6 6 6 5 1 1 6 6 6 5 1 1 6 6 6 5 1 1 6 6 6 5 1 1 6 6 6 5 1 1 6 6 6 5 1 1 6 6 6 6	Scallet fever. Small pox. Trachoma. Tuberculosis. Typhoid fever. Whooping cough.  SOUTH DAKOTA  Chicken pox. Diphtheria. Influenza. Measles. Mumps. Pneumonla. Scarlet fever. Small pox. Typhoid fever. Whooping cough.  ded March 27, 1926	777 1 29 8 4 13 13 8 2 82 128 14 121 9 3 14
Dightheria Influenza Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NORTH DAKOTA  Cerebrospinal meningitis Chicken pox Dightheria German measles Influenza Lethargic encephalitis Measles Mumps  Report for Ween NORTH DAKOTA	18 5 431 53 22 1 10 5 38 16 6 106 131 1 46 51 Cases	Scallet fever.  Smallpox Trachoma Tuherculosis Typhoid fever. Whooping cough  SOUTH DAKOTA  Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever. Smallpox Typhoid fever. Whooping cough  ded March 27, 1926  NORTH DAKOTA—continued	777 1 29 8 4 4 13 13 8 8 2 2 82 128 14 121 9 3 14 Cases
Dightheria Influenza Mensles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NORTH DAKOTA Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargio encephalitis Measles Mumps  Report for Wee NORTH DAKOTA Chicken pox.	18 5 431 58 22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Scarlet fever. Smallpox. Trachoma. Tuberculosis. Typhoid fever. Whooping cough.  SOUTH DAKOTA  Chicken pox. Diphtheria. Influenza. Measles. Mumps. Pneumonia. Scarlet fever. Smallpox. Typhoid fever. Whooping cough.  ded March 27, 1926  NORTH DAKOTA—continued Pneumonia.	777 1 29 8 4 13 13 8 2 128 122 128 14 121 9 3 14
Diphtheria Influenza Mensles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KORTH DAKOTA Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles Mumps  Report for Wee NORTH DAKOTA Chicken pox Diphtheria	18 5 431 53 22 1 1 100 5 38 10 106 131 1 46 51 Cases 28 7	Scarlet fever. Small pox. Trachoma. Tuberculosis. Typhoid fever. Whooping cough.  SOUTH DAKOTA  Chicken pox. Diphtheria. Influenza. Measles. Mumps. Pneumonia. Scarlet fever. Small pox. Typhoid fever. Whooping cough.  aded March 27, 1926  NORTH DAKOTA—continued Pneumonia. Poliomyelitis.	777 1 29 8 4 13 13 13 13 8 2 128 14 121 9 3 14 Cases 23 1
Diphtheria Influenza Mensles Preumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NORTH DAKOTA Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles Mumps Report for Wed NORTH DAKOTA Chicken pox Diphtheria German measles German measles Mumps	18 5 431 58 22 1 1 100 5 38 10 106 131 1 4 6 51 Cases 28 7 198	Scarlet fever. Small pox. Trachoma. Tuberculosis. Typhoid fever. Whooping cough.  SOUTH DAKOTA  Chicken pox. Diphtheria. Influenza. Measles. Mumps. Pneumonia. Scarlet fever. Small pox. Typhoid fever. Whooping cough.  ded March 27, 1926  NORTH DAKOTA—continued Pneumonia. Poliomyelitis. Scarlet fever.	777 1 29 8 4 13 13 13 13 22 128 14 121 9 3 14 CCases 23 2 1 80
Diphtheria Infinenza Mensles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NORTH DAKOTA  Cerebrospinal meningitis Chicken pox Diphtheria German measles Infinenza Lethargic encephalitis Measles Mumps  Report for Wed NORTH DAKOTA  Chicken pox Diphtheria German measles Infinenza Chicken pox NORTH DAKOTA  Chicken pox Diphtheria German measles Infinenza	18 5 431 53 22 1 1 10 5 38 1 6 10 106 131 1 46 51 Cases 28 7 198 98	Scallet fever.  Small pox Trachoma Tuberculosis Typhoid fever. Whooping cough  SOUTH DAKOTA  Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever. Small pox Typhoid fever. Whooping cough  ded March 27, 1926  NORTH DAKOTA—continued Pneumonia Poliom yelitis Scarlet fever. Tuberculosis	777 1 1 299 8 4 4 13 13 8 2 2 822 128 14 121 9 9 3 14 Cases 23 1 80 3 3
Dightheria Influenza Mensles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NORTH DAKOTA Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles Mumps  Report for Wee NORTH DAKOTA Chicken pox Diphtheria German measles Influenza German measles Mumps	18 5 431 53 222 1 1 100 5 38 10 106 131 1 46 51 Cases 28 7 198 988 19	Scarlet fever. Small pox. Trachoma. Tuberculosis. Typhoid fever. Whooping cough.  SOUTH DAKOTA  Chicken pox. Diphtheria. Influenza. Measles. Mumps. Pneumonia. Scarlet fever. Small pox. Typhoid fever. Whooping cough.  ded March 27, 1926  NORTH DAKOTA—continued Pneumonia. Poliomyelitis. Scarlet fever.	777 1 1 299 8 4 4 13 13 8 2 2 822 128 14 121 9 9 3 14 Cases 23 1 80 3 3
Diphtheria Infinenza Mensles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NORTH DAKOTA  Cerebrospinal meningitis Chicken pox Diphtheria German measles Infinenza Lethargic encephalitis Measles Mumps  Report for Wed NORTH DAKOTA  Chicken pox Diphtheria German measles Infinenza Chicken pox NORTH DAKOTA  Chicken pox Diphtheria German measles Infinenza	18 5 431 53 222 1 1 100 5 38 10 106 131 1 46 51 Cases 28 7 198 988 19	Scallet fever.  Small pox Trachoma Tuberculosis Typhoid fever. Whooping cough  SOUTH DAKOTA  Chicken pox Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever. Small pox Typhoid fever. Whooping cough  ded March 27, 1926  NORTH DAKOTA—continued Pneumonia Poliom yelitis Scarlet fever. Tuberculosis	777 1 1 299 8 4 4 13 13 8 2 2 822 128 14 121 9 9 3 14 Cases 23 1 80 3 3

## SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Cere- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
January, 1926										
Nebraska	2	40	8				0	181		4
February, 1926										
California Colorado District of Columbia Florida Hawaii Territory Nebraska Rhode Island South Dakota Marchei926	0	473 84 95 55 25 42 27 31	1,803 31 109 139 16 16 21	6 7 0	364 47 251 29 32 2, 138 86	2 0 0	15 0 0 0 0 0 0	673 103 103 49 3 179 51 396	658 4 0 558 0	41 6 3 31 5 1 3 7
Arizona. Connecticut District of Columbia Nebraska Wisconsin	0 4 0 3 4	17 190 57 20 166	302 889 19 35 844	0 0	10 4, 670 1, 555 2, 240	2 1 0	0 3 1 1 2	43 426 92 254 709	1 0 6 48	4 6 7 2 19

# PLAGUE-ERADICATIVE MEASURES IN LOS ANGELES, CALIF.

The following items were taken from the report of plague-eradicative measures from Los Angeles, Calif.:

# Week ended Mar. 27, 1926:

Number of rats trapped	1, 426
Number of rats found to be plague infected	. 0
Number of squirrels examined	509
Number of squirrels found to be plague infected	0
Number of mice trapped	1,684
Number of mice found to be plague infected.	0
ate of discovery of last plague-infected rodent. Nov. 6, 1925.	

Date of discovery of last plague-infected rodent, Nov. 6, 19 Date of last human case, Jan. 15, 1925.

# GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended March 27, 1926, 36 States reported 1,130 cases of diphtheria. For the week ended March 28, 1925, the same States reported 1,455 cases of this disease. Ninety-nine cities, situated in all parts of the country and having an aggregate population of more than 30,000,000, reported 756 cases of diphtheria for the week ended March 27, 1926. Last year for the corresponding week they reported 921 cases. The estimated expectancy for these cities was 972 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-three States reported 16,823 cases of measles for the week ended March 27, 1926, and 4,479 cases of this disease

April 16, 1926 742

for the week ended March 28, 1925. Ninety-nine cities reported 10,657 cases of measles for the week this year, and 2,793 cases last year.

Poliomyelitis.—The health officers of 36 States reported 11 cases of poliomyelitis for the week ended March 27, 1926. The same States reported 17 cases for the week ended March 28, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-six States—this year, 3,815 cases; last year, 4,173 cases; 99 cities—this year, 1,876 cases; last year, 2,304 cases; estimated expectancy, 1,213 cases.

Smallpox.—For the week ended March 27, 1926, 36 States reported 1,008 cases of smallpox. Last year for the corresponding week they reported 981 cases. Ninety-nine cities reported smallpox for the week as follows: 1926, 218 cases: 1925, 318 cases; estimated expectancy, 128 cases. Six deaths from smallpox were reported by these cities for the week this year—at Los Angeles, Calif.

Typhoid fever.—One hundred and thirty-five cases of typhoid fever were reported for the week ended Murch 27, 1926, by 35 States. For the corresponding week of 1925, the same States reported 218 cases of this disease. Ninety-nine cities reported 48 cases of typhoid fever for the week this year and 59 cases for the corresponding week last year. The estimated expectancy for these cities was 46 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 94 cities, with a population of more than 29,500,000, as follows: 1926, 2,651 deaths; 1925, 1,273.

# City reports for neck ended March 27, 1926

The "estimated expectancy" given for diphth(xie, poliomyelitie, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascert in from previous occurrence how many cases of the disease under consideration may be expected to occur during a cultain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine yours. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are calculated and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the dienes given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

			Dipht	heria	Influ	ienza			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths 16- ported	Mea- sles, cases 1e- ported	Mumps, cases 16- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine Portland	75, 333	5	1	Q	3	٥	52	6	8
New Hampshire Concord	22, 546	0	0	0	0	0	2	0	1
Vermont Barre Burlington	10, 908 24, 989	0	0	0	0	0	0	0	0 2

# City reports for week ended March 27, 1926-Continued

							·		
			Diph	theria	Influ	ienza			_
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND—con.									
Massachusetts: Boston Fall River. Springfield Worcester Rhode Island:	779, 620 128, 993 142, 065 190, 757	67 3 5 6	58 4 4 5	29 3 0 7	85 25 10 12	6 -3 3 1	131 4 110 6	45 1 0 0	77 1 6 21
Pawtucket Providence	69, 760 267, 918	0	1 10	0 7	0 45	0 7	28 141	0	12 26
Connecticut. Bridgeport. Hartford. New Haven.	(1) 160, 197 178, 927	1 5 10	7 7 4	11 0	30 14 28	5 2 2	3 32 61	1 0 1	9 12 14
MIDDLE ATLANTIC									
New York: Buffalo New York Rochester Syracuse New Jersey:	538, 016 5, 873, 356 316, 786 182, 003	15 135 18 9	12 242 8 6	13 169 10 6	19 865 1 21	11 133 9 2	2, 279 69 99	0 70 0 39	35 630 14 15
Camden Newark Trenton Pennsylvania:	128, 642 452, 513 132, 020	5 47 3	5 17 4	17 1	4 67 6	4 4 5	36 300 12	0 11 2	11 32 14
Philadelphia Pittsburgh Reading	1, 979, 364 631, 563 112, 707	67 49 3	83 21 3	48 16 1		43 11 2	712 60 23	23 0 1	161 66 13
EAST NORTH CENTRAL									
Ohio: Cincinnati Cleveland Columbus Toledo Indiana:	409, 333 936, 485 279, 836 287, 380	10 29 13 45	9 23 4 4	35 2 7	690 0 7	13 33 0 6	31 386 604 166	4 3 0 0	37 74 7 8
Fort Wayne Indianapolis South Bend Terre Haute Illinois:	97, 846 358, 819 80, 091 71, 071	19 5 0	3 7 1 0	0 0 1 0	0 0 0	3 2 0 0	20 980 4 16	0 2 9 0	3 29 8 2
Chicago Peoria. Springfield Michigan	2, 995, 239 81, 564 63, 923	119 4 23	98 1 1	53 0 0	369 0 5	65 1 4	107 32 14	18 10 3	205 4 1
Detroit Flint Grand Rapids Wisconsup:	1, 245, 824 120, 316 153, 698	44 24 10	51 5 3	30 3 1	42 10 0	24 1 3	563 18 34	7 1 0	112 14 7
Kenosha Madison Milwaukee Racine Superior	50, 891 46, 385 509, 192 57, 707 39, 671	5 2 121 8 0	1 0 14 1 0	3 1 19 0 0	3 6 0 0	0 0 5 0	162 118 2 7	0 0 36 0	2 0 13 4 0
WEST NORTH CENTRAL									
Minnesota: Duluth Minneapolis St. Paul Iowa:	110, 502 425, 435 246, 001	77 28	1 16 15	0 14 8	0 0	0 0 2	11 284 13	0 4 5	4 11 10
Davenport Des Moines Sioux City Waterloo Missouri	52, 469 141, 441 76, 411 36, 771	4 0 3 2	1 2 1 1	1 1 0 0	596 0 0		0 10 5 6	0 0 0 0	
Kansas City St. Joseph St. Louis	367, 481 78, 342 821, 543	17 0 41	7 1 39	4 2 41	13 0 2	11 1 2	261 3 365	2 0 8	22 7

¹ No estimate made.

City reports for week ended March 27, 1926-Continued

			Dipht	heria	Influ	enza			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
WEST NORTH CENTRAL— continued									
North Dakota: Fargo Grand Forks	26, 403 14, 811	4 0	1 0	0	0	0	0 5	17	2
South Dakota: Aberdeen Sioux Falls Nebraska:	15, 036 30, 127	1 2	0	0	0	ō	14 8	46 0	ō
Lincoln Omaha Kansas:	60, 941 211, 768	4 13	2 4	1	0	0	0 26	3 1	3 14
Topeka Wichita	55, 411 88, 367	31 21	1	2 2	0	0	168 168	0	1 5
SOUTH ATLANTIC Delaware: Wilmington	122,049	0	2	4	0	0	45	0	9
Maryland: Baltimore Cumberland	796, 296 33, 741	84	27 1	9	39 3	11 0	484 10	186 0	56 2
Frederick District of Columbia: Washington Virginia:	12, 035 497, 906	27	10	6	7	0	33 389	0	0 26
Lynchburg Norfolk Richmond	30, 395 (1) 186, 403	8	1 1 2	2	0	0	31	8	0 8
Roanoke	58, 208 49, 019 63, 485	22 0	1 1 0	1 1 0	6 2	2	143 34 5	0 0	3
Wheeling North Carolina: Raleigh	63, 485 56, 208 30, 371	0	0	0	0	0	142	0	13 4
Wilmington Winston-Salem South Carolina: Charleston	37, 061 69, 031 78, 125	23 1	0	0	0 0 21	1 4 8	27 1	6 4	1 1
Columbia Greenville Georgia:	73, 125 41, 225 27, 311	1	0 0 2	0	0	0	0	0	0
Atlanta Brunswick Savannah Florida:	16, 809 93, 184	7 5 9	0	2 0 1	24 0 17	6 0 1	13 0 6	0	14 0 2
TampaEAST SOUTH CENTRAL	- 94,743	6	1	0	0	2	0	1	10
Kentucky: Covington Louisville	58, 309 305, 935	13	1 5	3	36	0	368	2	5 45
Tennessee: Memphis Nashville Alabama:	174, 533	26	5 1	4 0		9	58 42		8 16
Birmingham Mobile Montgomery	205, 670 65, 955 46, 481	21 4 5	0	1 0	3	9 2 0	94	) 0	10 8 0
WEST SOUTH CENTRAL	1							,	
Arkansas: Fort Smith Little Rock Louisiana:	31, 643 74, 216						- 10		3
New Orleans Shreveport Oklahoma	414, 493 57, 85		- 0	1	1	1		) 1	
Oklahoma City  No estimate made.	-1 (9	1, (	11 1		1 44		, i . 1(	) (	i, 3

# City reports for week ended March 27, 1926—Continued

	T		T	I	iph	theri	а.	:	Influ	enz	a			
Division, State, an city	đ	pulation July 1, 1925, stimated	Chic en po case re- porte	x, Cas	ti- ted ect-	Cas re port	-	Ca re por	3- f	Dea re por		Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths ro- ported
WEST SOUTH CENTRAL	.=													
Texas:  Dallas Galveston Houston San Antonio		194, 450 48, 375 164, 954 198, 069		38 0 3 1	4 0 2 1		3 0 9 4		5 0 0 0		5 1 3 6	0 0	0 0 1 0	3 3 6 5
MOUNTAIN  Montana:														
Billings Great Falls Helena Missoula		17, 971 29, 883 12, 037 12, 669	1	0 18 0 0	1 0 1		0		0 0 0 11		0 1 0 1	0 7 0 0	6 11 7 3	3 2 1 2
Idaho: Boise Colorado		23, 042	:	0	0		0		0		0	1	0	0
Denver Pueblo		280, 911 43, 787		22 11	8 1		17 3		0		4	22 3	0 0	8 2
New Mexico: Albuquerque Arizona:		21,000	,	6	0		0		3		1	0	2	, 0
Phoenix Utah:		38, 669	•	0	1		2		0		1	0	0	3
Salt Lake City. Nevada:		130, 948 12, 668		0	0		8		0		0	0	18	3 0
Reno		12, 000	'	١	υ		U		U		١	1	U	1
Washington: Seattle Spokane Tacoma		(1) 108, 89 104, 45	7	40 13 0	5 3 0		1 2 1		0		ō	52 0 6	30 0 0	ō
Oregon: Portland California:		282, 38	į.	44	4		5		1		0	15	4	6
Los Angeles Sacramento San Francisco		(1) 72, 26 557, 53	3	74 6 54	39 1 22		65 2 18		17 0 4		1 0 3	15 1 94	12 19 13	20 6 7
	Scarle	t fever		Smallpo				1		Гур	hoid i	ever	1	T
Division, State, and cily	Cases, esti- mated expect- ancy		Cases, esti- mated expect- ancy	Cases re- ported	1	aths re- rted	re	sis, ths	Case esti- mate expec- anc	t- I	Cases re- ported	Death re- ported	re-	Deaths, all causes
NEW ENGLAND														
Maine: Portland	3	5	0	0		0		0		1	0	,	4	25
New Hampshire: Concord Vermont:	1	1	0	0		0		0		0	0	(	0	9
Burlington Massachusetts:	1 0	0	0	0		0		0		0	0		0	3 6
Boston Fall River Springfield Worcester	63 3 6 10	87 3 6 4	0	0 0 0		0 0 0		24 4 3 1		1 0 0 0	0 0 0		0 154 0 1 0 15 0 14	
Rhode Island Pawtucket Providence	2 8	1 8	0	0		0		0		0	0		0 4	30 127
Connecticut Bridgeport Hartford New Haven	9 6	5 4	0	0	-	0		1 2 2		000	0		0 8 0 10 0 6	88 47

¹ No estimate made.

City reports for week ended March 27, 1926-Continued

***************************************		,								· · · · · · · · · · · · · · · · · · ·	
	Searle	fever	i	Smallpo	x	Tuber-	Ту	phoid fe	ever	Whoop-	
Div sion, State, and city	Cuscs, csti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases 10- ported	Deaths 16- ported	culo- sis. deaths re- ported	Cases, esti- mated expect- ancy	Cases 1e- ported	Deaths re- ported	cough, cases 1e- ported	Deaths, all causes
MIDDLE ATLANTIC									•		
New York: Buffalo New York Rochester Syracuse New Jersey:	21 266 17 15	21 173 16 1	0 1 0 0	0 0 0 0	0 0 0 0	15 1139 2 4	1 7 0 1	1 15 1 0	1 2 0 0	28 80 18 42	241 2,460 112 97
Camden Newark Trenton	26 3	30 8	0 0 0	0 0	0 0 0	13 13	0 0	0 0 1	0	0 20 2	46 146 55
Pennsylvania: Philadelphia Pittsburgh Reading	71 24 3	90 63 11	0 1 0	1 0 0	0	41 13 0	3 1 1	2 0 0	1 0 0	28 77 5	753 266 53
EAST NORTH CENTRAL											
Ohio: Cincinnati Cleveland Columbus Toledo	13 29 9 17	31 110 16 15	2 1 2 6	0 0 1 0	0 0 0 0	11 19 3 6	0 2 0 0	0 0 0 1	0 0 0 0	31 139 5 23	196 328 80 91
Indiana: Fort Wayne Indianapolis South Bend Terre Haute Illinois:	.1 4	9 12 4 1	1 5 1 1	0 13 0 1	0 0 0 0	2 9 2 0	0 0 0	0 0 0 1	0 0 0 0	4 46 4 2	27 141 22 14
Chicago Peoria Springfield	121 3 1	133 6 2	3 1 0	0	0	48 2 3	2 0 0	2 0 0	1 0 0	49 8 16	1, 116 32 29
Michigan: Detroit Flint Grand Rapids	90 6 8	176 22 31	2 1 1	0	0 0	26 3 3	1 1 0	3 0 0	0	47 18 50	474 40 55
Wisconsin: Kenosha Madison Milwaukee Racine Superior	2 3	6 17 22 7 4	1 1 5 1 4	0 0 0	0 0 0	0 0 6 2	0 0 0	0 0 0	0 0 0	13 2 54 39 0	8 130 13 3
WEST NORTH CENTRAL											
Minnesota: Duluth Minneapolis St. Paul	5 33 30	22 75 74	2 8 6	0 0 0	0 0 0	1 6 5	1 1 0	0 0	0	13 10 12	22 101 71
Iowa: Davenport Des Moines Sioux City Waterloo	2 8 2 3	2 3 6 5	2 3 1 0	0 0 9 0			0 0 0	0 0 0		0 0 1 3	
Missouri: Kansas City St. Joseph St. Louis	10 2 33	35 6 178	2 0 4	3 0 6	0 0 0	7 0 16	1 1 1	0 0 1	0	44 0 42	121 27 274
North Dakota: Fargo	2 0	4	0	0	0	0	0	0	0	0	8
Aberdeen Sioux Falls Nebraska:	2 3	5 3	0 1	0 2	<del>-</del>	ō	0	0	ō	1	<u>5</u>
Lincoln Omaha Kansas:	3 4	0 36	6	1 8	0	0 3	0	0	0	24 1	24 61
Topeka Wichita	3 2	1	3	0	0	1 0	0	0	Ņ	4 2	28 28

¹ Pulmonary tuberculosis only.

# City reports for week ended March 27, 1926-Continued

	Scarle	t fever		Smallpo	ox .		Т3	phoid f	ever	7771	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Tuber- culo- sis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Whoop- ing cough, cases re- ported	Deaths, all causes
SOUTH ATLANTIC											
Delaware: Wilmington Maryland:	2	6	0	0	0	1	a	0	0	4	32
Baltimore Cumberland Frederick	38 0 1	28 0 0	0 0	0	0 0 0	20 0 0	2 0 0	1 0 0	1 0 0	39 0 0	297 12 3
Dist. of Columbia: Washington Virginia	26	21	2	5	0	11	1	1	1	35	168
Lynchburg Norfolk	0	0	0	1	0	3	0	0	0	5	16
Richmond Roanoke West Virginia:	2 1	13 0	0	0 2	0	3 2	0	0	0	0	64 28
Charleston Huntington Wheeling North Carolina:	1 1 2	0 1 7	0 0 0	2 1 0	0	<u>0</u>	0 0 0	0 0 0	0 0	18 0 0	16 30
Raleigh Wilmington Winston-Salem	0 1 0	0 0 0	1 0 5	0 0 5	0 0 0	1 1 0	0	0 0 0	0 0 0	0 3 2	15 8 24
South Carolina: Charleston Columbia Greenville	0	1 0 0	0 1 1	0	0 0 0	3 0 0	0 1 0	0 0 0	0 0 0	0 0 2	24 8
Georgia: Atlanta Brunswick	5	1 0 0	3 0 1	7 2 1	0	11 0	1	1 1 0	0 0 0	2	94 4
Eavannah Florida: Tampa	0	1	0	23	0	3 0	1	4	1	0 1	26 50
EAST SOUTH CENTRAL											
Kentucky: Covington Louisville	2 5	5	0	0	0	0 5	0 1	; <u>î</u> -	0	i	27 136
Tennessee: Memphis Nashville Alabama:	4 2	12 8	2 2	4	0	3 10	0	1	0	0	67 86
Birmingham Mobile Montgomery	0 0	2 0 0	8 1 0	6 0 0	0 0	7 1 0	0 0	0	0	12 1 0	81 22 26
WEST SOUTH CEN- TRAL											
Arkansas: Fort Smith Little Rock	0	0 5	0	0	ō	<u></u>	0	0	ō	1 0	********
Louisiana: New Orlcans Shreveport	5	19 0	3 2	7 2	0	17 3	2 0	1 0	2	0	163 25
Oklahoma: Oklahoma City Texas:	1	1	5	0	0	0	0	0	0	0	20
Dallas	2 0	10	4 0	8	0	2	0	0	0	11 0	49 19
Houston San Antonio	. 1	ő	0	6 0	00	3 7	0	1 0	0	000	47 55
MOUNTAIN							-				
Montana: Billings Great Falls Helena	. 0	0 1 0	1 1 0 1	0 1	0	000	0	0	0	2 7 0	10 5 9 12
Missoula Idaho: Boise	1	0	1	0 2	0	0	. 0	0	0	6	í

City reports for week ended March 27, 1926-Continued

And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	esti- Cases e		1	Smallpo	x	1	Tubou		Тур	hoid fe	ver	XX	hoop-	
Division, State, and city	esti-		Cases, esti- mated expect- ancy	Cases re- ported	Deatl re- porte	hs	ruber- culo- sis, deaths re- ported	ms exp	ases, sti- ated pect- ncy	Cases re- ported	Deaths re- ported	co	ing ough, ases re- orted	Deaths, all causes
Colorado: Denver	12	13 5	2	0		0	11 0		0	3 0	0		98 1	75 10
New Mexico: Albuquerque	1	1	0	0		0	11		0	0	0		5	15
Arizona: Phoenix	1	0	0	1		0	6		0	0	0		0	17
Utah: Salt Lake City.	3	4	1	0		0	1		0	0	0		59	39
Nevada: Reno	. 0	0	0	0		0	0		0	0	0		0	0
PACIFIC														
Washington: Seattle Spokane Tacoma	10 4 2	38 11 0	4 7 2	5 0 19		ō	0		0 0 0	1 0 1	0		3 2 6	21
Oregon: Portland	6	14	11	4		0	0	İ	0	0	0	1	1,	68
California: Los Angeles Sacramento San Francisco	21 2 15	34 5 19	4 0 6	46 3 5		6 0 0	24 1 15		2 0 1	1 0 2	0		$\frac{2}{0}$	232 28 150
Division, Sta	ite, and	city	Cas	ses Dea	ths C	ase	Deat	hs	Cases	Deatl	Case esti mate expe- anc	d et-	Cases	Deaths
NEW E	NGLAND													
Massachusetts: Boston Fail River Worcester		•		5 0 0	3 0 0	0 0 1	1	1 0 0	0 0 0	1	0000	010	0 1 0	0
MIDDLE A	TLANTI	C					Ì							
New York: New York Rochester New Jersey:				5	3 1	22 0	Transport de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de l	7 0	0		0	10	2 0	0
Newark Pennsylvania:				1	0	1	١.	0	0	1	0	1	0	0
Philadelphia				0	0	0		1	0		0	0	0	0
EAST NORTH	H CENTE	LAL						-			1			
Chicago Michigan:				1	0	0		0	0		0	0	0	0
Detroit Wisconsin:				1	0	0		1	0		0	0	0	0
Milwaukee				0	0	1		1	0		0	0	0	0
WEST NORT	H CENT	RAL									1	1		
Missouri: St. Louis	*******			0	1	0		0	0		0	0	0	0
Topeka				0	1	0		õ	ō		0	0	0	0
Wichita			I	11	0	0	ī	0 1	0	1	0	n l	n	i A

City reports for week ended March 27, 1926-Continued

		prospinal ungitis		hargic phalitis	Pe	llagra		yelitis paralj	(infan-
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	(	Deaths
SOUTH ATLANTIC									
Maryland: Baltimore. North Carolina: Winston-Salem Florida: Tampa	0	1 0 0	0	1 0 0	0 1	0 1 0	0	0	0
EAST SOUTH CENTRAL									
Tennessee: Memphis	1 0	0	0 1	0	0 1	1 0	0	0	0
Texas: Dallas	0 0	0	0	1 1	0	0	0 0	0	0
MOUNTAIN  Montana:     Great Falls	0	0 0 0	0 0	1 0 1	0 0	0 0 0	0 0 0	0	0 1 0
PACIFIC Washington: Seattle	3 1	0	0 0 2	0	0	0	0	0	000

The following table gives the rates per 100,000 population for 103 cities for the five-week period ended March 27, 1926, compared with those for a like period ended March 28, 1925. The population figures used in computing the rates are approximate estimates as of July 1, 1925, and 1926, respectively, authoritative figures for many of the cities not being available. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and more than 29,750,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below:

Summary of weekly reports from cities, February 21 to March 27, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925 1

# DIPHTHERIA CASE RATES

DIFHTHERIA CASE RATES												
	Week ended—  Feb. Feb. Mar. Mar. Mar. Mar. Mar. Mar. Mar. Mar											
	Feb. 28, 1925	Feb. 27, 1926	Mar. 7, 1925	Mar. 6, 1926	Mar. 14, 1925		Mar. 21, 1925	Mar. 20, 1926	Mar. 28, 1925	Mar. 27, 1926		
103 cities	² 163	135	156	3 124	162	4 114	161	⁵ 120	162	6 131		
New England Middle Atlantic East North Central West North Central South Atlantic East South Central East South Central Mountain Pacific	177 111 289 108 47 154	102 118 140 241 73 52 116 209 216	225 166 107 273 98 58 137 83 224	95 111 123 3 235 109 47 103 73 189	170 213 120 195 86 37 150 102 188	78 112 7 107 214 86 10 28 103 109 148	141 196 125 193 129 63 92 139 237	128 125 8 97 144 69 10 28 103 73 283	115 230 104 239 90 53 114 129 170	139 142 101 146 \$ 62 10 39 155 255 240		
		ME	ASLES	CASE	RATI	ES						
103 cities	2 342	2,047	403	³ 1, 883	433	4 1, 693	487	5 1, 790	489	6 1, 837		
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	341 589 70	2, 188 2, 040 3, 080 891 3, 109 1, 235 9 82 162	633 426 738 66 94 79 22 28 102	2, 446 1, 840 2, 691 3 845 2, 697 1, 323 17 209 278	522 516 695 72 138 11 84 740 105	1, 969 1, 713 7 2, 132 1, 637 2, 267 10 1, 499 39 337 326	700 595 726 90 179 63 40 555 180	1, 725 1, 855 8 2, 008 1, 872 2, 795 10 2, 408 43 328 321	728 630 747 86 129 32 9 37 144	1, 347 1, 835 2, 088 2, 306 2, 750 10 3, 096 125 310 453		
	·	SCARL	ET FE	VER (	CASE I	RATES						
103 cities	2 390	285	381	3 290	415	4 303	411	ā 301	403	6 325		
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Adountain Pacific	402	354 187 339 695 201 171 112 100 313	563 370 403 752 161 179 176 277 207	347 185 345 3815 163 187 90 337 313	515 437 460 697 207 326 101 194 218	333 192 7 370 893 150 10 149 112 218 251	525 416 460 768 138 263 128 416 207	404 202 3 341 800 158 10 154 138 246 280	582 404 449 731 157 263 97 240 211	355 210 407 889 9 156 10 149 146 209 288		
		8M/	LLPO	X C78	E RAT	res						
103 cities	2 64	41	60	3 50	59	4 40	61	5 36	56	6 38		
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	26 117	0 18 77 66 52 133 46 245	0 1 40 111 48 599 70 46 196	0 0 23 8 62 100 67 194 36 302	0 5 37 121 56 410 70 92 235	0 0 7 19 67 49 10 72 142 18 262	0 8 30 98 54 593 101 65 202	0 0 8 26 49 60 10 88 138 64 164	0 7 31 131 63 389 101 18 182	0 10 57 996 10 61 142 27 210		

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1925, and 1926, respectively.

2 Hartford, Conn., not included.

3 Kansas City, Mo., not included.

4 Madison, Wis., and Covington, Ky., not included.

5 Racine, Wis., and Covington, Ky., not included.

6 Norfolk, Va., and Covington, Ky., not included.

7 Madison, Wis., not included.

8 Racine, Wis., not included.

8 Norfolk, Va., not included.

8 Norfolk, Va., not included.

8 Covington, Ky., not included.

Summary of weekly reports from cities, February 21 to March 27, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925—Continued.

TYPHOID FEVER CASE RATES

	.T.	YPHO	ID FE	VER C	ASE H	LATES				
					Week	ended—				
	Feb. 28, 1925	Feb. 27, 1926	Mar. 7, 1925	Mar. 6, 1926	Mar. 14, 1925	Mar. 13, 1926	Mar. 21, 1925	Mar. 20, 1926	Mar. 28, 1925	Mar. 27, 1926
103 cities	² 13	5	10	³ 10	9	48	11	⁸ 6	10	68
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	8 6 16 19 32	5 2 1 2 11 10 30 18	7 10 8 6 8 32 26 9	12 4 5 0 6 10 39 146 16	5 5 3 10 23 32 26 18 14	57 74 48 106 4 146	29 8 6 8 21 42 22 0 0	0 4 83 21 22 20 9 5	12 7 3 6 12 53 40 0 26	0 10 4 2 * 16 10 17 9 27 13
	,	INFL	UENZ	DEA	TH R	ATES				<u></u>
96 cities	2 34	47	30	⁸ 51	33	771	40	8 76	31	9 97
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	20 23 36 46 116	19 39 14 23 100 135 227 100 35	17 15 25 34 50 95 135 18 25	12 68 14 85 47 259 132 109 32	34 24 31 32 31 84 102 46 15	24 105 7 32 35 77 197 104 146 21	29 29 46 40 50 110 73 46 11	45 95 8 66 31 51 223 156 46 18	29 22 38 44 12 79 34 37 47	69 111 104 38 82 254 123 64 14
		PNEU:	MONIA	DEA	TH RA	TES				
96 cities	2 190	260	196	³ 269	214	7 325	208	⁸ 373	197	9 372
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	150 275 268	165 316 179 106 451 301 378 410 142	218 209 182 136 251 247 218 129 124	187 357 206 3 96 340 311 387 237	220 213 226 169 232 336 169 203 138	217 460 7 289 146 301 389 255 300 92	204 216 208 167 275 263 169 166 116	357 503 8 357 144 349 400 279 200 99	211 198 201 161 232 247 160 194 142	430 493 351 159 330 477 175 191 117

- Hartford, Conn., not included.
   Kansas City, Mo., not included.
   Madison, Wis., and Covington, Ky., not included.
   Raeine, Wis., and Covington, Ky., not included.
   Norfolk, Va., and Covington, Ky., not included.

- Madison, Wis., not included.
  Racine, Wis., not included.
  Norfolk, Va., not included.
  Covington, Ky., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively

Group of cities	Number of cities reporting	Number of cities reporting	of cities cases	population reporting	Aggregate of cities deaths	population reporting
	cases	deaths	1925	1926	1925	1926
Total	103	96	29, 944, 996	30, 473, 129	29, 251, 658	29, 764, 201
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	12 10 16 14 21 7 8 9	12 10 16 11 21 7 6 9	2, 176, 124 10, 346, 970 7, 481, 656 2, 594, 962 2, 716, 070 993, 103 1, 184, 057 563, 912 1, 888, 142	2, 206, 124 10, 476, 970 7, 655, 436 2, 634, 662 2, 776, 070 1, 004, 953 1, 212, 057 572, 773 1, 934, 084	2, 176, 124 10, 346, 970 7, 481, 656 2, 461, 380 2, 716, 070 993; 103 1, 078, 198 563, 912 1, 434, 245	2, 206, 124 10, 476, 970 7, 655, 438 2, 499, 036 2, 776, 070 1, 004, 953 1, 103, 695 572, 773 1, 469, 144

# FOREIGN AND INSULAR

# THE FAR EAST

Report for week ended March 13, 1926.—The following report for the week ended March 13, 1926, was transmitted by the far eastern bureau of the health section of the League of Nations' secretariat, located at Singapore, to the headquarters at Geneva:

	Pla	gue	Cho	lera		all- ox		Pla	gue	Cho	olera	Sm	
Port	Cases	Deaths	Cases	Deaths	Cases	Deaths	Port	Cases	Deaths	Cases	Deaths	Cases	Deaths
Calcutta Bombay Madras Rangoon Karachi Negapatam Colombo Basra Singapore Port Swettenham Penang Batavia Serabaya Samarang Cheribon Belawan Deli Palembang Sabang (Rhio) Makassar Menada Banjermasin Balik Papan Pontianak (Borneo) Sandakan (North Borneo) Kuching (Sarawak) Timor Dilly Manila Hollo Jolo Cebu Zamboanga Bangko Saigon and Cholon Haiphong Tourane Hongkong Tourane Hongkong Shanghai Amoy Nagasaki Yokohama Simonoseki Moji Kobe	100000000000000000000000000000000000000	020110010000000000000000000000000000000	000000000000000000000000000000000000000	55 0 12 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	658 216 65 100 000 000 000 000 000 000 000 000 00	46 186 32 10 10 00 00 00 00 00 00 00 00 00 00 00	Osaka Niigata Tsuruga Hakodate Keelung Fusan Chemulpo Dairen Adelaide Brisbane Fremantle Melbourne Sydney Rockhampton Townsville Port Darwin Broome Port Moresby Auckland Wellington Christchurch Invercargill Noumea (New Caledonia) Honolulia Suez Tor (Quarantine Station) Alexandria Port Said Mombasa (Kenya) Zanzibar Massowah Djibuta Berbera Mozambique Lourenco Marques Durban East London Port Flisabeth Capetown Port Louis (Mauritins) Seychelles	0000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	400000000000000000000000000000000000000	000000000000000000000000000000000000000

#### CANADA

Communicable diseases—Week ended March 27, 1926.—The Canadian Ministry of Health reports certain communicable diseases in seven Provinces of Canada for the week ended March 27, 1926, as follows:

Disease	Nova Scotia	New Bruns- wick	Quebec	Onta- rio	Mani- toba	Sas- katche- wan	Al- berta	Total
Influenza Lethargic encephalitis	11				2			13
Smallpox Typhoid fever	1		11	28 9	2 2	5	1 2	36 25

## CUBA

Communicable diseases—Provinces—November and December, 1925.—Cases of diphtheria and typhoid fever were notified in the Provinces of Cuba for the months of November and December, 1925, as follows:

Province		November		December	
		Typhoid fever	Diph- theria	Typhoid fever	
Pinar del Rio. Habana. Matanzas. Santa Clara. Camaguay. Oriente.	1 23 1 8 1 4	16 28 6 17 6	12 3 6	8 15 10 2 9	
Total	38	86	30	44	

#### **ECUADOR**

Communicable diseases—Quito—February, 1926.—During the month of February, 1926, communicable diseases were reported at Quito, Ecuador, as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Diphtheria	1 70 4 1	7	Tuberculosis (pulmonary) Typhoid fever Paratyphoid fever	45 32 1	10 5

These data cover only cases reported to the bureau of health, or located by the bureau. Three cases of typhoid fever were treated outside the lazaretto and ended fatally. Of the 29 cases treated at the lazaretto only 2 terminated fatally.

#### ESTHONIA

Communicable diseases—January, 1926.—During the month of January, 1926, communicable diseases were reported in the Republic of Esthonia as follows:

Diseaso	Cases	Discase	Cases
Inphtheria	1	So riet fever	217
Lepiosy		Tuberculos.s	154
Measles		Typhoid iever	62
Paratyphoid fever		Typhus tover	6

#### HAWAII TERRITORY

Plague—Honokaa.—Under date of March 18, 1926, two cases of human plague and one death from a disease suspected to be plague were reported at Honokaa, Territory of Hawaii.

## IRELAND (IRISH FREE STATE)

Typhus fever—Counties Kerry and Wexford.—During the week ended March 13, 1926, one case of typhus fever was reported at Listowel, County Kerry, and one case at Gorey, County Wexford, Irish Free State, Ireland.

#### MEXICO

Typhus fever in Mexico City—Correction.—The item appearing in the Public Health Reports for January 22, 1926, stating that there were 111 deaths from typhus fever in the municipalities in the Federal District of Mexico during the week ended December 19, 1925, was erroneous The number of deaths was 11.

# CHOLERA. PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

The reports contained in the following tables must not be considered as complete or fluid as regards either the lists of countries included or the figures for the particular countries for which reports are given.

# Reports Received During Week Ended April 16, 1926 ¹ CHOLERA

Place	Date	Cases	Deaths	Romarks		
India. ('alcutta Aladras	Jan. 24–30 Feb. 14–37 Feb. 14–Mar. 6	2,861 104 18	1, 709 89 14			
PLAGUE						

Azores: St. Michaels British East Africa:	Jan. 17-30	4	2	
Kenya— Kisamu Uganda Protectorate	Feb. 7-27 Dec. 1-31	2 139	3. 118	

I From medical officers of the Public Health Service, American consuls and other sources.

# CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

# Reports Received During Week Ended April 16, 1926—Continued

## PLAGUE-Continued

Place	Date	Cases	Deaths	Remarks
Celebes:				
Makassar	Jan. 27-Feb. 2	3	3	One plague-infected rodent.
Ceylon: Colombo	Feb. 21-27	3	2	
Egypt: Alexandria	Mar. 10	1		
Province-				
Gharbia Mima	Mar. 9 Mar. 4.	1	1	
Hawaii Territory: Honokaa	Mar. 16	2		One death suspected plague.
India	Jan. 24-30 Feb. 14-20	3, 005	2, 466	o no double publication program.
Bombay Karachi	Feb. 21-Mar. 6	5 3	6 3	
Madras Presidency Rangoon	Jan. 24-Feb. 13 Feb. 14-27	466 24	275 19	
Iraq: Bagdad	Jan. 31-Feb. 20	31	18	
Java:				
Batavia Cheribon	Feb. 13-19 Jan. 30-Feb. 6 Jan. 21-Feb. 13	48	47 1	
Surabaya	Jan. 21-Feb. 13	7	7	
	SMAI	LPOX		
Algeria:				
Algiers	Mar. 1-10	9		
Arabia:	Feb. 28-Mar. 6	1		
Brazil. Rio de Janeiro	Feb. 6-20	64	31	
Canada: Alberta	Mar. 21-27	1		
British Columbia— Victoria	do	2		
Manitoba				Mar 21-27, 1926: Cases, 2.
Winnipeg Ontario	Mar. 21-27	1		Mar. 21-27, 1926: Cases, 28.
TorontoSaskatchewan	Mar. 14-20do	1 5		
China:	ŀ	1		Present.
Foochow Hongkong	Feb. 7-13do	1		rresent.
Manchuria— Dairen	Feb. 1-14	17	4	
Shanghai.	Feb. 21-27	5	9	Cases, foreign, in International
France:	Mar. 1-10	5	1	Settlement and foreign conces- sion; deaths, foreign and
Great Britain: England and Wales	Mar. 14-20	189		Chinese.
SheffieldGreece:	Mar. 7-20	3		
Kalavryta	Mar. 1-7	1		Originating from Patras.
India Bombay	Jan. 24-30 Feb. 14-20	6,457 12	1,587	
Calcutta Karachi	Feb 14-27	90	55 4	
Magras	Feb. 21-Mar 6 Feb. 14-Mar. 6 Feb. 14-27	30	5	
RangoonIraq:	Feb. 14-27	32	3	
Bagdad Basra	Feb. 8-20 Dec. 27-Feb. 13	40	3 32	
Japan:	ĺ			
Yokohama Java:	Feb. 22-Mar. 7	21	4	
Cheribon Pontianak	Jan. 31-Feb. 6		1	
Surabaya	Jan. 24-Feb. 13	30	13	
Mexico: Aguascalientes	Mar. 21-27		4	
Guadalajara Mexico City	Mar. 23-29 Mar. 7-13	i	2	Including municipalities in Fed-
	**************************************	. 1		eral District.
Netherlands: The Hague	Feb. 28-Mar. 6	1		,

## Reports Received During Week Ended April 16, 1926—Continued SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
Portugal: Oporto Spain. Valencia Switzerland: Lucerne.	Feb. 28-Mar. 6 Mar. 6-12 Jun. 1-31	1 1 5		
	TYPHUS	FEVE	R	
Esthonia Ireland: Irish Free State—	Jan. 1-31	6		
Kerry County— Listowel Wexford County—	Mar. 7-13	1		Rural district.
Gorey Union of South Africa: Natal— Durban	Feb 20-27	1 2		Do.
Transvoal— Johannesburg	Mar. 1-6	2		

## Reports Received from December 26, 1925, to April 9, 1926 ¹ CHOLERA

Place	Date	Cases	Deaths	Remarks
Chosen	October - Novem- ber, 1925.	12	5	
French Settlements in India	Dec. 1-31	880	712	Oct. 18, 1925, to Jan. 2, 1926
Calcutta Do	Nov. 1-28. Dec. 6-28.		89 54	Cases, 21,316; denths, 12,371 Jan. 3-23, 1926. Cases, 12,045
Do. Do.	Jan. 24-Feb. 13	103	41 90	deaths, 6,613.
Madras Do.	Jan. 3-Feb 13	75	70 46	
Rangoon Do Indo-China			3	September, 1925: Cases, 9; deaths
Province— Annam	Sept. 1-30	2	2	5. September, 1924: Cases, 7 deaths, 4. (European cases, 2.)
Cochin China Saigon	do	5 2	3 2	Including 100 square kilometers
Tonkin	Aug. 30-Oct. 17	409		of surrounding country.
Do		113		
Manila Do. Province—	Nov. 9-Jan. 3 Jan. 4-Feb. 13	15	10 26	
Bataan Do		29 1	25 1	
Batangas Bulacan	Jan. 24-30	3	3 64	
Do	Nov. 23-Dec. 31 Jan. 2-30	200	88	
Laguna Do	Jan. 24-30	4	14 4 2	
Nueva Ecija Pampanga Do	Nov. 1-7	. 1	2 1 85	-
Do Rizal	Jan. 2-30	27	25 21	
Do. Rombion	Dec. 21-30	1 14	111	

From medical officers of the Public Health Service, American consuls, and other sources.

### Reports Received from December 26, 1925, to April 9, 1926—Continued

### CHOLERA-Continued

Place	Date	Cases	Deaths	Remarks
RussiaDo	May-June July-August	7 4		
Siam: Bangkok Do Do	Oct. 4-Nov. 14 Nov. 22-Dec. 26 Dec. 27-Feb. 13	108 270 187	68 149 125	
On vessel: Steamship	Oct. 3	9		Arrived at Bangkok, Siam: Cases in coolie passengers.
	PLA	GUE		
Argentina Buenos Aires	Jan. 24–30	<u>1</u> -		Jan. 24–30, 1926: 6 cases, occurring in interior Provinces of Salta and Santa Fe.
Brazil: Bahia Do	Nov. 8-Dec. 28 Dec. 27-Jan. 30	. 3	1 2	
Santos Sao Paulo British East Africa; Kenya—	Dec. 8-21 Reported Mar. 25	4	2 1	
Kisumu Do Uganda Protectorate	Nov. 22-Dec. 5 Jan. 31-Feb. 6 September-No-	1 2 338	308	
Canary Islands: La Laguna	vember. Dec. 24	3	2	-
Las Palmas Do Santa Cruz de Teneriffe Do	Jan. 7 Dec. 18–27 Dec. 28–Feb. 1	1 1 3 3	1	
Celebes: Makassar Ceylon:	Dec. 29-Jan. 26	9	9	Netherlands East Indies.
Colombo Do Do	Nov. 15-Dec. 5 Dec. 27-Jan. 16 Jan. 24-Feb. 13	3 2 1	3 2 1	I plague rodent.  Feb. 14-20, 1926: Two plague rodents.
China: Nanking Ecuador:	Nov. 15-Jan. 23			Prevalent.
Eloy Alfaro Guayaquil Do Recreo (country estate)	Jan. 1-15 Nov 1-Dec. 31 Jan. 1-31do	31 34 1	12 14	Rats taken, Nov. 1-Dec. 31, 1925, 49,870; rats found infected, 281.
Egypt				Rats taken, Jan. 1-Feb. 28, 1926, 44.55; rats found infected, 406. Jan. 1-Dec. 9, 1925; Cases, 138. Corresponding period, 1924;
Fayoum Province	Nov. 18 Dec. 3-9	1	1	Cuses, 505.
Athens Do Herakleion	Nov. 1-30 Jan. 1-31 Fob. 4 Nov. 13-Dec. 12	18 14 1	3	Including Piræus. On island of Crete.
Patras Hawaii Territory: Paauilo	Nov. 18-Dec. 12	4	1	
India Bonihay Do	Dec. 6-12	<u>1</u>	1 2	Jan. 29, 1926: Plague-infected rat found in vicinity. Oct. 18, 1925, to Jan. 2, 1926: Cases, 15,135; denths, 10,677. Jan. 3-23, 1926: Cases, 7,463; deaths, 4,873.
Calcutia Karachi Madras	Dec. 6-12	75	1 8 41	deaths, 4,873.
Do		35	22 64 83	,
Rangoon Do Indo-China	Oct. 25-Dec. 26 Dec. 27-Feb. 13	113 23 33	73 15 30	September, October, 1925: Cases,
Province— Cambodia—— Cochin China	Sept. 1-30	11 14	11 12	25; deaths, 23.

## Reports Received from December 26, 1925, to April 9, 1926—Continued PLAGUE—Continued

Place	Date	Cases	Deaths	Remarks
Iraq:				
Bagdad Do	Dec. 13-Jan. 2 Jan. 10-30	7 12	3 8	•
Java: Batavia	Oct. 24-Nov. 6	94	89	Province.
Do	Oct. 24-Nov. 6 Nov. 14-Jan. 1 Jan. 2-Feb. 12	315 321	297 310	
Cheribon Do	Sept. 27-Oct. 17 Nov. 15-Dec. 26	Į.	166 198	
Do. Djokjakarta	1811. 3-23		7	Epidemic in 1 locality.
Kediri Koeningan	Dec. 7		114	Do.
Pekalongan	Dec. 7		42	
Do	Oct. 20		172	Do.
Surabaya Do	Oct. 11-Dec. 26 Dec. 27-Jan. 9	50 16	59 16	
Tegal	Dec. 27-Jan. 9 Jan. 17-23 Sept. 27-Oct. 17 Nov. 8-Dec. 26	5	5 6	
Do Madagascar	Nov. 8-Dec. 26		31	Nov. 1-December, 1925: Cases,
Province— Ambositra	Pec. 16-31	9	7	632; deaths, 593. Jan. 1-15, 1926: Cases, 161; deaths, 151.
Do Itasy	Jan 1~15	2 20	2 20	Bubonic, pneumonic, and sep- ticemic.
Do	Sept. 16-Oct. 31 Nev. 16-Dec. 16 Jan. 1-15	34 29	34 29	much Received dea
Moramanga	Sept. 16-Dec. 31	49 15	48 15	
Tananarive.	Jan. 1-15 Sept. 16-Nov. 30 Dec. 16-31	368 152	341 143	
Do	Jan. 1-15	111	100	
Fort Dauphin	Sept. 16-Nov. 30 Sept. 16-30	6 3	3	•
Tamatave (pert)	Oct. 16-Nov. 30	) 9	9 2	- +
Tanananve	Sept. 16-30 Nov. 1-30	11	11	
Do	Sept. 20-Dec. 26 Oct. 1-Nov. 30	21	18	
Port Louis	ldo	. 4	2	
Riviere du Rempart Persia:	October	2		
TeheranPeru	Oft. 21-Nov. 21		12	January, 1926: Cases, 196; deaths,
Huacho	Fan 26	15		67. Reported in 26 localities. Port 60 miles north of Caligo.
Lima	Fan. 1-31	20		In hospital. Some cases in Prov- ince
Mollendo				12 or 15 cases reported unoffi- cially.
Russia.	July-October	67 166		
Senegal.	September - Octo- ker.	45	25	
Siam Bangkok	A ng. 23-Dec. 26 Nov. 15-28 Jan. 3-30	65	53 3	
Do	Jan. 3-30 Feb. 7-13	38 5	33 4	
Straits Settlements: Signapore	Nov. 1-Dec. 5	l	8	
Byria: Do	Jan 3-9		2	
Beirut Do	Negv. 11-20	1		
Union of South Africa: Cape Province—		1		,
Kimberley district Middlehurg district	Dec 13-19 Dec 6-12	1		European.
Steynsburg district Orange Free State—	Nov. 15-21	1		Native. On farm.
Boshof district Bethaville district	Nov. 29-Dec. 5 Dec. 6-12	1 1	1	In native. Native. On farm.
What are to select the season of the agent and	· ht And A. warenessen and an	*	- •	

### Reports Received from December 26, 1925, to April 9, 1926—Continued

### PLAGUE—Continued

Place	Date	Cases	Deaths	Remarks
On vessel: Steamship Cid				Jan. 29, 1926. At Buenaventura, Colombia. Rut was killed while jumping ashore from vessel.
	SMAI	LPOX		
Algeria: Algiers Do. Do. Arabia: Aden. Do. Argentina: Rosario Australia: Queensland— Blisbane Bahamas Brazil: Manaos	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-Feb. 28 Nov. 29-Dec. 5 Jan. 10-Feb. 27 October  Dec. 9-15 Feb. 23  Dec. 1-31	177 64 55 1 9	1 1	Imported.  In Nassau district. Stated to have been imported.
Do. Para Rio de Janeiro	Jan. 31-Feb. 20 Jan. 10-Mar. 6. Nov. 1-28 Dec. 6-26 Dec. 27-Feb. 6. Nov. 15-Dec. 19 Dec. 27-Jan. 2. Sept. 1-Oct. 31	28 134 65 131	6 6 72 26 100	From mainland.
Uganda Protectorate British South Africa: Northern Rhodesin Southern Rhodesin Canada  Alberta Calgary	Sept. 1-Oct. 31  Jan. 5-11  Nov. 13-Dec. 23  Dec. 13-19	8 2 3	4	Sept. 13-Jan. 2. In 7 Provinces, 186 cases. Jan. 3-Feb. 27, 1926: Cases, 277 Jan. 3-Mar. 20, 1926: Cases, 53. From Drumheller, vicinity of
British Columbia— Vancouver  Manitoba  Winnipeg  D  New Brunswick—	Jan. 4–10 Dec. 13–19 Jan. 3–Mar. 20	1 2 11		Calgary.  Jan. 3-Mar. 20, 1926: Cases, 38.
Northumberland Ontario  Admaston Alice and Fraser	Jan. 1-Feb. 1 Feb. 1-28	1 16 6		Dec. 1-31, 1925: Cases, 32. Jan. 3-Mar. 20, 1926: Cases, 170. Township. Do.
King. Wilmot. Belleville. Kingston. Kitchener. North Bay. Ottavia. Do. Sarnia. Toronto. Do. Trenton. Saskatchewan. Moose Jaw. Regins.		7 6 4 1 26 7 2 2 1 1 25 15 2 3		Do. Do. Jan. 3-Mar. 20, 1928: Casos, 67.
Saskatoon. Ceylon: Colombo Do. Chile: Punta Arenas Do.	Feb. 14-20 Dec. 6-12 Jan. 3-Feb. 6 Dec. 13-26 Dec. 27-Jan. 2	1 5	8	Port case.

### Reports Received from December 26, 1925, to April 9, 1926—Continued

### SMALLPOX-Continued

China:	Place	Date	Cases	Deaths	Remarks
Amoy.	China:				
Antung	Amoy	Oct. 25-Dec. 19			
Changking	Ďo	Jan. 10-Feb. 13		9	
Chungking	Antung	Dec. 7-20	2		Port case.
Rankow   Nov. 1=Pab. 0. 2s	Chungking	Nov. 15-Feb. 20			
Hongkong	F00000W	Nov. 1-Feb. 6			Do.
Hongkong	Hankow	Nov. 14-Dec. 26			
Do.   Jan. 3-Heb. 6.   7   3   Anchuria   Anchan   Dec. 6-12.   1   Do.   Jan. 10-Feb. 13.   6   5   5   5   5   5   5   5   5   5		Jan. 10-Feb. 20	2		
Manchuria	Hongkong	Nov. 22-Dec. 26			
An-shan Dec. 6-12 1 Do. Jan. 10-Feb. 13	Do	Jan. 3-Feb. 6	7	3	
Dairen   Dec 28-Jun 31	Manchuria—				
Dairen   Dec 28-Jun 31	An-shan	Dec. 6-12			
Dairen   Dec 28-Jun 31		Jan. 10-Feb. 13			
Dairen   Dec 28-Jun 31	Changchun	Jan. 10-Feb. 27			Do.
Fushun Jan. 17-28 1 Do.  Harbin Jan. 1-Feb. 18 2 Do.  Kai-yuan Jan. 10-30 4 Do.  Kungchuling Jan. 31-Feb. 20. 2 Do.  Mukden Oct. 24-Nov. 15. 1 Do.  Do. Jan. 24-Feb. 27. 4 Do.  Nanking Nov. 21-Dec. 28. Do.  Do. Do. Jan. 3-Feb. 20. 45 94  Nov. 25-Feb. 13. 37 36  Do. Jan. 3-Feb. 20. 45 94  Nov. 27-Feb. 20. 45 94  Nov. 28-Feb. 20. 45 94  Nov. 29-Feb. 20. 10 1  Salandria Dec. 3-31 5 2  Bayre:  Alexandria Dec. 3-31 5 2  Do. Jan. 5-14. 2 1  Bayre:  Great Britain:  England and Wales  Hull Dec. 27-Jan. 23. 29  Leeds Jan. 14-Feb. 6 4  London Tyne Nov. 29-Dec. 19 6  Do. Dec. 27-Mar. 13. 8  Leeds Jan. 14-Feb. 6 4  London Tyne Nov. 29-Dec. 19 6  Do. Dec. 27-Mar. 13. 82 1  Noviningham Nov. 22-Dec. 19 6  Do. Dec. 27-Mar. 6 15  South Shelds Feb. 16-22. 3 20  Do. Jan. 1-Feb. 28. 50 3  Salomiki Feb. 16-22. 3 20  Do. Jan. 1-Feb. 28. 50 3  Calentia. Do. Jec. 27-Dec. 31. 18 10  Markas. Jan. 24-30. 4 1  Do. Dec. 27-Bo. 30 1  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 27, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 18-Dec. 26, 1925: Cases, 23, 274  Cot. 28-Nov. 28-Dec. 3 4 1  Cot. 28-Nov. 28-Dec. 3 5 1  Cot. 28-Nov. 28-Dec. 3 5 1  Cot. 28-Nov. 28-Dec. 3 5 1  Cot. 28-Nov. 28-Dec. 3 5 1  Cot. 28-Nov. 28-Dec. 3 5 1  Cot. 28-Nov. 28-Dec. 3 5	Dairen	Oct 19-Dec. 27		15	
Harbin		Dec. 28-Jan. 31		11	
Mukden		Jan. 17-23	1		Do.
Kungehuling	Harbin				
Lio-yang	Kai-yuan	Jan. 10-30			D0.
Mukden	Kungchuling	Jan. 31-Feb. 20			
Do	Lio-yang	Jan. 17-23			
Do	Mukden	Oct. 24-Nov. 15			
Nanking	Do	Jan. 24-Feb. 27			Do.
Nanking	Tieh-ling	do	2		
Do.   Dec. 27-Feb. 13   Do.   Do.   Shanghai   Oct. 25-Jan. 2   37   36   Do.   Jan. 3-Feb. 20   Jan. 3-Feb. 20   Tientsin   Nov. 22-Feb. 20   Tientsin   Nov. 1-Dec. 19   2   Do.   Do.   Jan. 23-30   1   Do.   Do.   Do.   Jan. 23-30   1   Do.   Do.   Jan. 23-30   1   Do.   Do.   Jan. 23-30   1   Do.   Do.   Jan. 3-Feb. 10   Jan. 25-31   September. Do.   Jan. 29-Feb. 18   10   Jan. 29-Feb. 18   Jan. 25-31   September. Do.   Jan. 29-Feb. 18   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Do.   Jan. 25-31   September. Journal 25   Jan. 25-31   September. Journal 25   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan. 25-31   Jan	Nanking	Nov 21-The 26			Present.
Nov. 1-Dec. 19.   2   2   2   2   2   2   2   2   2	Do	Dec. 27-Feb. 13			Do.
Nov. 1-Dec. 19.   2   2   2   2   2   2   2   2   2	Shanghai	Oct. 25-Jan. 2	37	36	
Nov. 1-Dec. 19.   2   2   2   2   2   2   2   2   2	Do	Jan. 3-Feb. 20	46	94	Cases, foreign only.
Tientsin	Swatow	Nov. 22-Feb. 20		1	Prevalent.
Do.   Jan. 23-30.   1	Tientsin	Nov. 1-Dec. 19	2		•
Chosen: Seishin	Do	Jan. 23-30	1		i
Seishin	Chosen:	1	-	1	1
Egypt: Alexandria		Jan. 1-31	5	2	
Alexandria. Dec. 3-31			1	-	-
Do.   Jan. 20-Feb. 18.   10   1	Alexandria	Dec 3-31	1 5	2	1
Do.   Jan. 20-Feb. 18.   10   1		Jan 8-14			1
Esthonia France  Havre Gold Coast  September, December, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gember, Gese, Ad A  A  Boo.  Dec. 27-Mar, 13. Beb. A  Boo.  Dec. 27-Mar, 13. Beb. A  Boo.  Dec. 27-Mar, 13. Beb. A  Boo.  Dec. 27-Mar, 13. Beb. A  Boo.  Dec. 27-Mar, 13. Beb. A  Calcutia  Do.  Dec. 27-Mar, 13. Beb. A  Gember-December, Gases, 38. September, Gases, 253. Calcutia  Nov. 15-Dec. 26, 1925; Cases, 790 Dec. 27-Mar, 13. Beb. A  Gember, Gember  Nov. 29-Dec. 26. Beb. Beb. Beb. Gember, Gember  A  A  Calcutia  Dec. 27-Mar, 13. Beb. Calcutia  Dec. 27-Mar, 13. Beb. Calcutia  Dec. 27-Mar, 13. Beb. Calcutia  Gember, Gember  Nov. 29-Dec. 26. Beb. Gember, Gember  Gember  Nov. 13-Dec. Gember  Nov. 13-Dec. Gember  Gember  Nov. 15-Dec. 26, 1925; Cases, 790 Dec. 27-Mar, 13. Beb. Gember  Gember  Nov. 13-Dec. Gember  Nov. 29-Dec. 26. Beb. 7-Mar, 13. Beb. Gember  Gember  Nov. 15-Dec. 26, 1925; Cases, 790 Dec. 27-Mar, 13. Beb. Gember  Nov. 15-Dec. 26. Beb. 7-Mar, 13. Beb. Geme. A  Geme. 27-Mar, 13. Beb. Geme. 27-Mar, 13. Beb. Geme. 27-Mar	Do	Ian 20-Fab 18			
France	Fethonia	Van. 20 200. 10111	1 -0		Movember 1925: Cases 3
Havre   Jan. 25-31   9   Cases, 253.	Transa				Sentember Docember 1025.
Gold Coast		Jan 25-31		0	Coses 253
Creat Britain:		Santomber De-	58		C 0365, 200.
Great Britain:   England and Wales   Dec. 27-Jan. 23   29   Dec. 26, 1925; Cases, 700	doid 0000011111111111111111111111111111111	cember 20	1 00	1	1
England and Wales  Hull  Dec. 27-Jan. 23  Peb. 7-Mar. 13  Leeds  Jan. 14-Feb. 0  Jan. 13-Feb. 6  Newcastic-on-Tyne  Nov. 29-Dec. 19  Do  Dec. 27-Mar. 13  Selection  Nov. 22-Dec. 26  Do  Dec. 27-Mar. 13  Selection  Nov. 22-Dec. 26  Do  Dec. 27-Mar. 13  Sheffield  Nov. 22-Dec. 26  Do  Dec. 27-Mar. 13  Sheffield  Nov. 22-Dec. 26  Do  Dec. 27-Mar. 13  Sheffield  Nov. 22-Dec. 27  Do  Dec. 27-Mar. 13  Selection  Nov. 1-Dec. 31  South Shelds  Feb. 9  Greece  Athens  Nov. 1-Dec. 31  Selection  Nov. 1-Dec. 31  Selection  Nov. 8-Dec. 26  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Calcutta  Nov. 29-Dec. 26  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb. 13  Do  Dec. 27-Feb	Great Britain	) comment	1	1	1
Hull	England and Wales	1	1	1	Nov 15-Dec 26 1925: Cases 700
Do	Hall	Dec 27-Jan 23	29		Dec 27-Mar 13 1926: Cases 3 114
Leeds		Feb 7-Mar 13			1 200.21 11.101, 10.20. 00.300,0, 111.
London					1
Newcastic-on-Tyne		Inn 21-Fah A	ł	1	Ì
Sheffield	Newcastle-on-Tyne	Nov 29-Dec 19	6	1	1
Sheffield	To	Dec 27-Mar 13	99	1	1
Sheffield	Nottingham	Nov 22-Dec 26	آ ا	1 *	1
Sheffield	Do	Dec 27-Feb 27	2		1
Do	Sheffield	NOV. 22~11ec. 12	7		1
South Shields		Dec. 20-26			TI.
South Shields	Do	Dec 27-Mer 6			1
Greece         Nov. 1-Dec. 31.         18 Do.         1 Jan. 1-Feb. 28.         50 Stoniki         1 Stoniki         1 Stoniki         1 Stoniki         1 Cot. 18-Dec. 26, 1925; Cases 16.           India         Nov. 8-Dec. 26.         26 Do.         20 Do.         19,472; deaths, 4,440. Dec. 27         19,472; deaths, 4,440. Dec. 27         1925-Jan. 23, 1926; Cases 25         19,472; deaths, 4,440. Dec. 27         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 23,375         1925-Jan. 23, 1926; Cases 24,375         1925-Jan. 23, 1926; Cases 24,375         1925-Jan. 23, 1926; Cases 24,375         1925-Jan. 23, 1926; Cases 24,375         1925-Jan. 23, 1926; Cases 24,375<	South Shields	Web 9	1 -0		Raported present in severe form
Athens. Nov. 1-Dec. 31. 18 1 Do. Jan. 1-Feb. 28. 50 8 Saloniki Feb. 16-22. 1 India. Saloniki Feb. 16-22. 1 India. Saloniki Feb. 18-22. 1 Do. Dec. 27-Feb. 13. 101 53 deaths, 4,440. Dec. 27 Do. Dec. 27-Feb. 13. 101 53 deaths, 8,482. Saloniki Nov. 29-Dec. 26. 48 25 Do. Dec. 27-Feb. 13. 280 170 Karachi Nov. 29-Dec. 5. 4 2 Do. Nov. 29-Dec. 5. 4 2 Do. Dec. 13-19 3 Do. Dec. 13-19 3 Do. Dec. 29-Feb. 20 59 Madras. Jan. 24-30. 4 1 Rangoon Oct. 25-Nov. 28 3 Do. Dec. 27-Jan. 18. 13 1 Do. Dec. 27-Jan. 18. 13 1 Do. Jan. 24-30. 6	Grance	1			Oot 1-31 1025: Cuese 18
Saloniki     Feb. 16-22     1       India     1       Bombay     Nov. 8-Dec. 26     26       Do     Dec. 27-Feb. 13     101       Calcutta     Nov. 29-Dec. 26     48       Do     Dec. 27-Feb. 13     280       Do     Dec. 27-Feb. 13     280       Do     Nov. 1-21     23       Do     Dec. 13-19     3       Do     Dec. 13-19     3       Do     Dec. 29-Feb. 20     59       Madras     Jan. 24-30     4       Do     Dec. 28-Nov. 28     3       Do     Dec. 27-Jan. 16     13       Do     Jan. 24-30     6		Nov 1-Dec 21	10		Oct 1-01, 1820. Cases, 10.
Saloniki     Feb. 16-22     1       India     1       Bombay     Nov. 8-Dec. 26     26       Do     Dec. 27-Feb. 13     101       Calcutta     Nov. 29-Dec. 26     48       Do     Dec. 27-Feb. 13     280       Do     Dec. 27-Feb. 13     280       Do     Nov. 1-21     23       Do     Dec. 13-19     3       Do     Dec. 13-19     3       Do     Dec. 29-Feb. 20     59       Madras     Jan. 24-30     4       Do     Dec. 28-Nov. 28     3       Do     Dec. 27-Jan. 16     13       Do     Jan. 24-30     6		Ton 1-Feb 98	1 20		1
India	Colonilri	Fab 18_99			1
Calcutta Nov. 29-Dec. 25 48 25 Do Dec. 27-Feb. 13 280 170 Nov. 1-21 23 Do Nov. 29-Dec. 5 4 Do Dec. 27-Feb. 20 59 20 Madras Jan. 24-30 4 1 Do Dec. 35-Nov. 28 3 Do Dec. 6-28 4 1 Do Dec. 29-Feb. 20 59 20 Madras Jan. 24-30 50 12 Do Dec. 27-Jan. 16. 13 1 Do Jan. 24-30 6	Tradio	Feb. 10-22		1 -	Oct 19 Dec 28 1025; Conce
Calcutta Nov. 29-Dec. 25 48 25 Do Dec. 27-Feb. 13 280 170 Nov. 1-21 23 Do Nov. 29-Dec. 5 4 Do Dec. 27-Feb. 20 59 20 Madras Jan. 24-30 4 1 Do Dec. 35-Nov. 28 3 Do Dec. 6-28 4 1 Do Dec. 27-Jan. 16. 13 1 Do Jan. 24-30 6	Damhar	Mor C. Then 90			10 479; deaths 4 440 The 97
Calcutta Nov. 29-Dec. 25 48 25 Do Dec. 27-Feb. 13 280 170 Nov. 1-21 23 Do Nov. 29-Dec. 5 4 Do Dec. 27-Feb. 20 59 20 Madras Jan. 24-30 4 1 Do Dec. 35-Nov. 28 3 Do Dec. 6-28 4 1 Do Dec. 27-Jan. 16. 13 1 Do Jan. 24-30 6	Domony	Dog 27 Feb 12	20		19,412, Uentils, 4,440. Dec. 21,
Nov. 1=2  Dec. 5.   4   2   Dec. 5.   4   2   Dec. 5.   4   2   Dec. 5.   4   2   Dec. 5.   4   2   Dec. 13-19.   3   Dec. 29-Feb. 20.   59   20   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4	Coloutto	Non 20 Dec 20	101	05	# 1720-7311, 20, 1920; Cases, 20,070;
Nov. 1=2  Dec. 5.   4   2   Dec. 5.   4   2   Dec. 5.   4   2   Dec. 5.   4   2   Dec. 5.   4   2   Dec. 13-19.   3   Dec. 29-Feb. 20.   59   20   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   1   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4   Dec. 29-Feb. 20.   4	To	Tour 97-Trab 10	48	25	ueauis, 0,402.
Madras   Sain. 22-30   3   1	INO	Now 1 01	280	1.40	1
Madras   Sain. 22-30   3   1	E. SPECIII	Nov. 1-41	23		1
Madras   Sain. 22-30   3   1	D0	NOV. 25-Dec. 5	. 4	1 2	
Madras   Sain. 22-30   3   1	150	Dec. 13-19	1 3		-1
Madras   Sain. 22-30   3   1		Dec. 29-Feb. 20	. 59	20	1
Do	MISGISS	. 48D. 24-60	. 4	1	
Dec. 27-Jan. 16. 13 1 1 Jan. 24-30 6	Rangoon	Oct. 25-Nov. 28	. 3		
Do	Do	Dec. 6-26	4		1
Do	Do	Dec. 27-Jan. 16		] 1	i
130 Mar. 31-1 ed. 13 24   6	Fo	Jan. 24-30			-
	.D0	.i mer. 31-feb. 13	. 24	. 6	<b>●</b> ( ) ( ) ( ) ( )

## Reports Received from December 26, 1925, to April 9, 1926—Continued SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
Indo-China				September-October, 1925: Cases.
Province-				204; deuths, 62.
Amam	Sept. 1-Oct. 31	90	23	•
Cambodia.	do	72	30	
Cochin China. Saigon	Dec 21-27	61. 2	30 1	
Saigon.	Jan. 1-Feb. 7.	ã	-	Including 100 kilometers of sur-
Tonkin	Dec. 2-Jan. 2	$\widetilde{22}$		rounding country.
Two	t			•
Bagdad	Nov. 1-Dec 26	19	15	Sept. 6-Oct. 17, 1925: Cases, 81
Do	Dec. 27-Jan. 30	11	4	deaths, 40.
ItalyCatania	Fab. 15-28	1	i	Aug. 2, 1925; Jan. 2, 1926; Cases,
Genoa	Feb 15-28 Jan. 21-Feb. 10	4		52. Jan. 3-10, 1935. Cases, 12.
Rome	Oct. 12-25	ĩ		
Jamaica				Nov. 29-Dec 23, 1925; Cases, 95.
I				Nov. 29-Dec 23, 1925: Cases, 95. Dec. 27, 1925-Feb. 27, 1928: Cases, 250. Reported as alas- tum.
Kingston	Nov. 29-Dec. 26	43		Reported as alastram.
Do	Dec. 27-Jan. 30	48		Do.
Japan:	77. 2 . 2 . 2 . 2 . 2	_		
Nagasaki	Feb. 15-21	1		
Tarwan Yokohama	Nov. 11-Dec. 10 Dec. 14-20	3		*
Do.		7		
Java:	***************************************	•		
Batavia	Oct. 24-30	1		*
_ Do	Nov. 14-Dec. 25	7		
Buitenzorg	Nov. 29-Dec. 5 Nov. 8-Dec. 12	1		
Cheribon.	Nov. 8-Dec. 12	2 11		
Kraksaan Malang	Oct. 11-17	13		
Malang North Bantam	Oct 4-17	4		
Pekalongan	≀ Oct. 25-31	ī		
Probolingo	' Oct 11-17	. 1		!
Surabaya	Oct. 11-Dec. 28 Dec. 27-Jan. 23	.633	104	
Do	Oct. 11-17	101	27	
South Bantam Togal	Oct. 4-10	ģ	1	
Latvia	.,			December, 1925: Cases, 3.
Malta	Nov. 1-Dec. 21	21	3	
Do Mexico	Jan. 1-Feb. 28	20		Traler Companyabon 4005: Tamadhar
Aguascalientes	Dec. 13-Jan. 2	4	3	July-September, 1925: Denths, 1,157.
Do	Jan. 3-30		7	1,101.
Do	Jan. 3-30 Feb. 14-Mar. 20		8	
Durango			1	1
Do	Jan. 1-31		2	
Guadalajara Mexico City	Dec. 27-Mar. 22 Nov. 28-Dec. 5	1	13	Including municipalities in Fed-
Macsico e ity	į.	B		erai District.
Do	Jan. 3-Feb. 6	4		Do.
San Lais Potos	Jan. 3-Feb. 6. Jan. 17-Mar. 20 Dec. 21-Jan. 2	ļ	. 53	,
Tampico.	Dec. 21-Jan. 2.	1	1	į
Torreon.	Jan 2-Mar. 10. Nov 1-Dec. 31. Jan. 1-Feb. 28.	8		1
Do	Jan. 1-Feb. 22		51 54	1
Notherlands:	1		J	
The Hague	Jan. 30-Feb. 6	1	1	
Nigeria		l	†	August-November, 1925: Cases, 347; deuths, 5.
Palestine:	1	1	ì	1
Hebron Tibernas	Jan. 26-Feb. 1	2		1
Persia:	Feb. 9-15	1		
Teheran	July 23-Dec. 22	4		1
Peru:	l .	1	775	
Arequipa	Oct. 1-Dec. 31		2	
Poland		1		Nov. 1-28, 1925: Cases, 9.
Portugal:		1		
Lisbon	Oct. 4-31 Nov. 16-13cc. 27	124		.
Do	NOV. 16-1300. 27	ļ <u></u>	60	J
Do	Nov. 14-Der. 26. Dec. 27-Feb. 28. Nov. 22-Dec. 19. Dec. 27-Feb. 13.	1127 87	29	-1
Oporto	Nov. 22-Dec. 19	2	3	4
DoRumania	Dec. 27-Feb. 18 August-October	3	1	1

## Reports Received from December 26, 1925, to April 9, 1926—Continued SMALLPOX—Continued

SMALLPOA—Continued						
Place	Date	Cases	Deaths	Remarks		
Russia				May-June, 1925: Cases, 2,333.		
Do	July-October	1,503				
Siam				July 12-Sept. 5, 1925: Cases, 21;		
Bangkok	Dec. 20-25	3	.1	deaths, 6.		
Do Sierra Leone:	Dec. 26-Feb. 13	51	17			
Konno district	Dec. 16-31			•		
Spain:	200. 10 0122222					
Madrid	Year 1925		18			
D0	Jan. 1-31		1	·		
Malaga	Nov. 29-Dec. 5		2			
Do Valencia	Dec. 27-Jan. 2	1	1			
Do	Dec. 20–26. Dec. 27–Jan. 2. Jan. 10–Feb. 6.	i				
Do	Jan. 10-Feb. 6	9				
Do	Feb. 14-Mar. 5	6				
Straits Settlements:	D	١ .				
Singapore	Dec. 20-28 Jan. 10-16	1 2	i			
Do Switzerland	Jan. 10-10	2	1 1	Tune 28-Nov 21 1925 Cases 62		
Lucerne	Oct. 1-Nov. 30	8		Dec. 27, 1925-Jan. 30, 1926		
Zurich	Dec. 27-Jan. 2	ĭ		June 28-Nov. 21, 1925: Cases, 62; Dec. 27, 1925-Jan. 30, 1926: Cases, 37.		
Zurich Trinidad (West Indies): Port of Spain	i	1		•		
Port of Spain	Jan. 1-Feb. 20	3				
Tunisia;	37 01 00	2				
Tunis Do	Nov. 21-30	10	1			
Do	Dec. 11-31	6	-			
Union of South Africa:	0 0000 1 1 000 100					
Cape Province	Jan. 17-23			Outbreaks.		
Orange Free State-						
Kuruman district	Jan. 10–16 Dec. 27–Jan. 2			Do.		
Ladybrand district Transvaal—	Dec. 2/-Jan. 2			Do.		
Belfast district	do		,	Do.		
Germiston district	Jan. 2-9			Do.		
Pretoria district	Dec. 6-12			Outbreaks. In native compound.		
On ressel	Feb. 21	2		Mexican steamer Montezuma, at		
				Port of Ensenada, Mexico.		
V	TYPHUS	FEVE	R			
Algeria:						
Algiers	Nov. 1-Dec. 20	2	L			
Do	Jan. 1-Feb. 28	9				
Argentina:			ļ			
Rosario	Oct. 13-Dec. 31	50 50	3			
Bulgaria Sofia	Sept. 1-Dec. 31 Dec. 25-31	1	•			
Do	Jan. 8-14	2				
Chile			********	Dec. 15-31, 1925: Cases, 46.		
Achao	Dec. 15-31	1				
Bulnes	do	1				
Chilian Conception	do	24 6				
Linares	do	ĭ				
Los Angeles	. do	5				
Penco.	do	2				
San Carlos	do	1				
Talca	go	1				
Valparaiso	Nov. 29-Jan. 2	4	2			
China:	1404. 20-3411. 2			<b>-</b>		
Antung	Nov. 29-Dec. 27	5	1			
Do	Jan. 4-10	1				
Hongkong	Dec. 27-Jan. 2	1				
Maneouria-	Dec. 17-Feb. 4	3	i			
Harbin Czechoslovakia	October-December			1		
Egypt		. 120	1 1			
Alexandria	Jan. 8-14	1		1		
Cairo	Nov. 5-Dec. 16	. 3	2			
Port Said	Nov. 19-25	. 1		1		
				Cataban 1025: 1 ance		
Finland France	July-October			October, 1925: 1 case.		

## Reports Received from December 26, 1925, to April 9, 1926—Continued TYPHUS FEVER—Continued

Place	Date	Cases	Deaths	Remarks
Hermany	Oet. 25-31	1	•	
reece				December, 1925: Cases, 12.
Athens	Nov. 1-30	11	2 7	
Do	Jan. 1-Feb. 28	38	7	
Saloniki	Dec. 29-Jan. 4	1		-
Do	Feb. 2-8	1		
Iungary				November-December, 1925:
reland:				Cases, 16.
Cork County—	Then De Tom 1	2		
Cork	Dec. 26-Jan. 1 Jan. 2-8	5		
Do Dunanway	Nov. 14	1 1		
Galway County	Oct. 17	1		
	October-December	4		
atviadthuania	October-December			September-October, 1925: Chses
F			1	9; deaths, 1.
Mexico	Too 14 10	1		July-September, 1925. Deaths
Aguascanemes	Dec. 14-19	1	1	90.
Durango	Dec. 1-31 Jan. 1-31			
DoGuadalajara	Thee 8-58		1 2	
To To	Dog 20 Jon 4		1	
Morro	Dec. 29-Jan. 4 Nov. 22-Dec 26.:	145	1 1	Including municipalities in The
Mexico	Nov. ZZ-Dec Zo.:.	140		Including municipalities in Fed eral District.
Do	Dec. 27-Mar. 6	79		Do.
San Luis Potosi	Feb. 6-13		1	2-0.
Tampico.	Dec. 21-Jan. 10	1	i	•
Torieon	November, 1925		î	
Vera Cruz	Feb. 12		ī	
Vera Cruz Morocco	August-December.	93		
Vorway				November-December, 1925;
				Cases, 2.
Palestine:			1	-
Gaza	Dec. 18	1		
Jaffa	Dec. 17 Feb. 23-Mar. 1	1		
Do	Feb. 23-Mar. 1	1		
Nazareth	Nov. 3-9	1		
Saira	Nov. 24-30	1		
Tel-Aviv	Nov. 3-9. Nov. 24-30do	1		
Peru:		}		
Arequipa	October-December		. 3	
Poland	Oct. 11-Nov. 18 Nov. 29-Jan. 2	215	26	
Do Do	Nov. 29-Jan. 2	247	18	j .
_ Do	Jan. 3-16	190	14	T-1- 0-1-1- 7007 0 10
Rumania			.}	July-October, 1925: Cases, 18
Constantza	Feb. 1-10	1		deaths, 22.
Russia		{		May-June, 1925: Cases, 10,680.
Do		{		July-October, 1925: Cases, 6,03
Turkey: Constantinople	Jan. 24-30	3		
Constantinopie	Feb. 9-22	5		From unofficial sources (press).
Do Union of South Africa	£ CD. 8-22	1 0	, ,	October 1095. Cause 88. doeth
Omon of Bouth Affica				7 (colored) Cases European
	ì	ì	1	7 December 1925 Cases 7
	1	1.	1	deaths 9 Colored: Cases 7
	į.	1	1	deaths, 9 January, 192
	ţ	1	1	Coses, 94: deaths, 18, Eur
	<b>!</b>	1	1	7 October, 1925: Cases, 88; death 7 (colored). Cases, Europea 7. December, 1925: Cases, 7 deaths, 9. Colored: Cases, 7 deaths, 9 January, 192 Cases, 44; deaths, 18. Eur pean cases, 5.
Cape Province	Oct. 1-31	63	5	Colored.
- Too	Nov 8-Dec 31	Δ7	8	1
Do	Jan. 1-31	74	14	Do.
Granamstown	l Jan. 24-30	. 2		.1
Middleburg district	Dec. 6-12	. 1		European. On farm.
Natal	Oct 1~Dec. 5	1 1		
Do	Jan. 1-31	_ 9	1	Colored.
Durban	Jan. 1-31 Jan. 3-16	. 1		.1
Orange Free State	Nov. 29-Dec. 5	. 23		1
Do	Dec. 1-31	_ 8	1	_
	Jan. 1-31	! 6	3	Do.
Do Bethulia district	Dec. 6-12		_	Outbreaks.
Rothavilla dietriat		_\ 1		Native. On farm.
Transvaal	l Oct. 1-31	1 1		}
LO	Dec. I-31	18		
Bloemhof district	Dec. 27-Jan. 2			Outbreaks. On farm. Jan. 1-Feb. 21, 1926: Cases,
Yugoslavia		-	-	Jan. 1-Feb. 21, 1926: Cases, deaths, 12.

## Reports Received from December 26, 1925, to April 9, 1926—Continued YELLOW FEVER

Place	Date	Cases	Deaths	Remarks
Gold Coast Nigeria Senegal	Sept. 1-Dec. 31 August-October November, 1925	. 3 3	3 2 2	

## TREASURY DEPAR'T

## PUBLIC HEALTH REPORTS

ISSUED WECKLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

VOLUME 41 NUMBER 17

APRIL 23 - - -1926



Comparison of Full-Time and Part-Time County Health IInits Vitamin Deficiencies and Susceptibility to Certain Poison



WASHINGTON GOVERNMENT PRINTING OFFICE

#### UNITED STATES PUBLIC HEALTH SERVICE

Hugh S. Cumming, Surgeon General

#### DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Sung. Gen. B. J. LLOYD, Chief of Division

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They contain: (1) Current information of the prevalence and geographic distribution of preventable diseases in the United States in so far as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other communicable diseases throughout the world. (2) Articles relating to the cause, prevention, or control of disease. (3) Other pertinent information regarding sanitation and the conservation of the public health.

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### PUBLIC HEALTH REPORTS

VOL. 41 APRIL 23, 1926 No. 17

### A COMPARISON OF FULL-TIME AND PART-TIME COUNTY HEALTH UNITS IN KANSAS

By EARLE G. BROWN, M. D., Secretary and Executive Officer, Kansas State Board of Health

It is impossible for any health department to prevent or control disease without knowledge of when, where, and under what conditions cases occur. The mere placarding and quarantine of the family for a communicable disease will not prevent the spread of the infection; the source from which the persons affected derived the infection must be located and proper measures must be taken to prevent the occurrence of additional cases.

A study of the part-time county health departments in Kansas indicates that through their activities they make very little impression upon the prevalence of communicable disease.

Under the Kansas law the county commissioners are the county board of health and appoint the county health officer. The salary allowed the part-time health officer in the great majority of counties is not sufficient for his living expenses. As a result he must engage in the practice of medicine in addition to his duties as health officer. Where the part-time plan obtains, practically no preventive measures are employed in the tracing of contacts or in locating the source of origin of the cases; and missed cases are one of the principal factors in the spreading of all communicable diseases. Statistics from counties having full-time health departments disclose the fact that approximately 50 per cent of all cases of communicable diseases are not seen by physicians in counties operating under the part-time health plan.

By way of illustrating the work of an organized whole-time county health department and its value to the community at large, consideration will be given to four communicable diseases: Typhoid fever, diphtheria, smallpox, and scarlet fever. Comparison will be made of Geary County operating for a five-year period under a part-time health department and for a five-year period under a full-time health department, with the average of three Kansas counties which have like populations and have operated for the past 10 years under a part-time health department. In order to deal with concrete figures, the value of a human life is placed at \$5,000; the cost of a case of typhoid fever at \$500; of diphtheria at \$100; of smallpox at \$100; of scarlet fever at \$100, and of a functal at \$300.

Since the organization of the Geary County full-time health department on January 1, 1920, painstaking effort has been made to trace to its source of infection every case of each of the four above-mentioned diseases. Records show that no serious epidemic has occurred in Geary County since the institution of the full-time health unit.

As is shown in the accompanying chart, the estimated economic loss from these diseases in Geary County for the five-year period totals \$85,400. Of this loss, \$56,400 occurred in 1920 and 1921. The economic loss for the remaining three years, 1922, 1923, and 1924, amounted to \$29,000. In these three years not a school child had diphtheria in this county. No person died from any of the four diseases listed in the table.

# COMPARISON OF ECONOMIC LOSSES FROM FOUR INFECTIOUS DISEASES—CONTRASTING A FULL-TIME WITH PART-TIME HEALTH UNITS.

			NAINS	37.10		
	1915-1919	PART TIME	GE/ 1920-1 <del>9</del> 24	ARY COUNTY FULL TIME	DECREASE	INGREASE
ТҮРНОІВ		\$24,900		\$7,000	\$17,900	
SMALLPOX		\$10,200		\$ 2,1 00	\$8,100	
BIPHTHERIA	- 1. <del>4</del> - 1. 2.	\$183,700 g	4	\$35,700	\$48,000	
SC. FEVER		\$76,500		\$40,600	\$ 3 5.900	
	-		POPUI	LATION 13,244	<del></del>	
	1915-1919		RAGE FOR 1920-1924	THREE COUNT	IES DECREASE	INCREASE
TYPHON9	\$6	6,600		\$26,500	\$40,100	
SMALL POX		\$14400		\$12,900	\$1,500	
SMALL POX DIPHTHERIA		\$14,400 \$24,100	, <b>S</b>	\$12,900 73,700	\$ 1,500	\$49,600
		•	6		\$ 1,500	\$49,600 \$25,100

The average economic loss per county in the three part-time counties for this three-year period, 1922, 1923, and 1924, was \$68,132, with a total of 26 deaths from the four diseases, typhoid fever, diphtheria, smallpox, and scarlet fever.

Statistics for the 10-year period for each county in the State give comparable results. Under the part-time plan, conditions remain essentially the same over each five-year period, while under the full-time plan marked improvement is shown in the prevention of cases and deaths.

On the whole, the part-time health officer is poorly financed by his board of county commissioners and has given better service than the public had any right to expect, considering the remuneration and 767 April 23, 1926

the handicaps under which he has worked. Much of the money thus spent has been wasted, since much of the work of the part-time health officer is not in prevention of disease, but in cleaning up outbreaks of diseases.

It is found also that wherever a full-time, active, competent county health officer is appointed he lowers the infant mortality promptly and speedily accelerates the diminution of the death rate from tuberculosis. He engages in effective measures for the education of the public in health matters and generally succeeds in a striking manner in increasing the span of life of those who reside in the community which he serves.

At the present time 10 Kansas counties are operating full-time health units.

### THE INFLUENCE OF VITAMIN DEFICIENCIES ON SUSCEPTIBILITY TO CERTAIN POISONS

By MAURICE I SMITH, Pharmacologist, W. T. McClosky, Assistant Pharmacologist, and E. G. Hendrick, Laboratory Assistant, Division of Pharmacology, Hygienic Laboratory, United States Public Health Service

In the course of some work on the relation of dietary deficiencies to tuberculosis resistance it was noted that vitamin A deficiency increased the susceptibility of the tubercle-infected white rat to the intraperitoncal injection of tuberculin (1). Briefly, it was found that while in the adequately nourished rat infected with the tubercle bacillus, tuberculin shock occurred only rarely following the intraperitoneal injection of old tuberculin, similar treatment of rats maintained on a diet deficient in vitamin A, though otherwise adequately constituted, resulted in a high percentage of fatal tuberculin shock. It was scarcely possible to offer an explanation for this phenomenon in view of our limited knowledge concerning the nature of the tuberculin reaction. In spite of the enormous amount of work on tuberculin hypersensitiveness in the experimentally infected animal, but little is as yet definitely known about its mechanism, beyond the fact that it is of a different order from general protein hypersensitiveness or anaphylaxis (2), (3), (4).

The suggestion had been made that the general tuberculin reaction in the tuberculous animal is due to the reaction of the hypersensitive tuberculous organism to toxic substances liberated within the tubercle, under the influence of parenterally introduced tuberculin. The experimental work of rause (5), Selter and Toner. (6), assermann (7), and others would seem to furnish a basis for such an hypothesis. If this view can be accepted as correct, we would be forced to conclude that the tissues of the tubercle-infected rat, which, under normal conditions of nutrition, are quite resistant to

April 23, 1926 768

tubercle toxin, are rendered susceptible to this toxin when deprived of the fat soluble  $\Lambda$  food accessory.

The relatively high degree of resistance of the adequately nourished rat is not alone limited to tubercle toxin. It has long been known that this animal is but little susceptible to anaphylactic shock, which has been recently pointed out anew by Parker and Parker (8). Coca, Russel, and Baughman (9) found a high resistance in the rat to diphtheria toxin, and Voegtlin and Dyer (10) have found the rat highly resistant to traumatic shock and to the shock-producing poison histamine. The influence of vitamin deficiencies upon the natural resistance of the rat in the conditions enumerated is unknown, beyond our observation with regard to an increased susceptibility to tuberculin (1) and the recent statement by Werkman, Baldwin, and Nelson (11) to the effect that vitamin deficiencies decrease its resistance to diphtheria toxin.

It seemed that further useful information upon our problem at hand would be gained from a study such as we have undertaken here, viz. the alteration of normal resistance of the rat to certain well-defined pharmacologic agents brought about by means of vitamin-deficient diets.

There is another aspect that presents itself in connection with these studies. We believe that information on the behavior of certain poisons in the avitaminous organism, if altered in some definite manner through the deficiency, should throw some light on the nature of avitaminosis. While considerable data have accumulated in recent years on the pathology of avitaminosis, the problem of altered physiologic function of organs and tissues in the avitaminous organism has only begun to receive attention, and but little is as yet known of the mode of action of the food accessory substances in the animal The obvious difficulty that such studies present is the fact that in our present state of imperfect knowledge of the chemistry of the vitamins, observations on their physiologic or pharmacologic action can be only of an indirect nature. Nevertheless, some important contributions in this field have already been made. Baldwin, Cook, and Nelson's (12) studies on the blood pressure of avitaminous rats indicate a markedly disturbed function of the cardiovascular apparatus caused by vitamin B deficiency, and to a lesser extent by vitamin A deficiency. This altered function of the cardiovascular apparatus appears to be beyond recognition by histologic or even electrocardiographic examination of the myocardium, as is shown in the work of Baude and Deglaud (13).

Van Leeuwen and Verzar (14) examined the reactions to some of the autonomic drugs, of tissues and organs in avitaminosis, and found no deviation from the normal. Their work, however, was limited to vitamin B deficiency, the experiments having been carried out for 769 April 28, 1926

the most part upon pigeons subsisting on polished rice, a diet which is, of course, deficient in many ways other than in vitamins.

More recently, Alpern (15) perfused the isolated wing of pigeons subsisting on polished rice and obtained a much-reduced reaction to epinephrine and BaCl₂ as compared with the normal. He correlates some of his findings with McCarrison's observation of suprarenal hypertrophy in vitamin B deficiency.

#### EXPERIMENTAL

The work reported herein has been carried out exclusively upon the albino rat, bred and raised in the laboratory under standard and uniform conditions. The diets employed in this study were as follows:

Substance	Adequate	A-deficient	B-deficient1
Casein ² Salt mixture 185 ³ Dried brewers' yeast Olive oil Cod-liver oil Starch	18. 0 4. 0 5. 0 8. 0 2 0 63 0	18. 0 4 0 5. 0 10. 0 0 0 63. 0	18. 0 4. 0 0. 0 8. 0 2. 0 68. 0
	100 0	100.0	100.0

¹ From some work on the nutritive properties of brewers' yeast which will be published shortly (Pub. Health Rep. (1926), 41, 201.—Ed) it appears that dried brewers' yeast furnishes besides vitamin B another heretolore unrecognized dietary factor essential in the nutrition of the rat when maintained on a synthetic diet as used herein. The ration reterred to as "B-deficient" is therefore deficient in this unrecognized factor as well as in vitamin B. Nevertheless, the term "B-deficient" is employed in conformity with common usage.

Purified by the method of McCollum (16).
 Formula as given by McCollum and Davis (17).

The general plan followed has been that of restricting the animals to the respective diets from the time of weaning, which was usually at the age of about three to four weeks, and at a body weight of about 30 to 40 grams. The animals on the adequate diet gained at the rate of about 15 grams per week, and were used for the toxicity tests after being on the diet for four to six weeks.

The animals on the  $\Lambda$ -deficient diet usually continued to gain at a variable rate for four to six weeks, then began to decline. The animals of this group were not used for the toxicity tests until there was definite and permanent cessation of growth, readily recognizable eye lesions, and other general manifestations of vitamin A deficiency.

Because of the rapid deterioration of young animals on the B-deficient diet it was found feasible to allow them to gain a certain degree of maturity on the adequate diet, and then to be restricted to the B-deficient diet. Within four to six weeks on the B-deficient diet considerable decline in weight occurred, and symptoms of the deficiency were clearly manifest, at which time the animals were subjected to toxicity tests.

The details of the plan pursued in this work are further illustrated by the three accompanying typical charts, which are self-explanatory and require no further comment.

The toxicity tests were carried out upon the three groups of animals with a variety of pharmacological agents the actions of which are more or less well known. All the tests were carried out under identical conditions. The substances were always administered in aqueous solution, the dilutions being such that the total volume injected did not exceed 1 c. c., and usually not more than 0.5 c. c. All the injections were made slowly into one of the saphenous veins, no anesthetic being employed. It was sought to determine the maximum tolerated dose and the minimum lethal dose of a variety of substances in the three groups of animals in order to ascertain whether a deficiency in one or the other of the well-known food accessories would manifest itself in an altered susceptibility to some one chemical substance or group of chemical substances.

The substances used to determine whether vitamin deficiency

resulted in an alteration of susceptibility included-

1. Central nervous system stimulants (strychnine, cocaine, atropine).

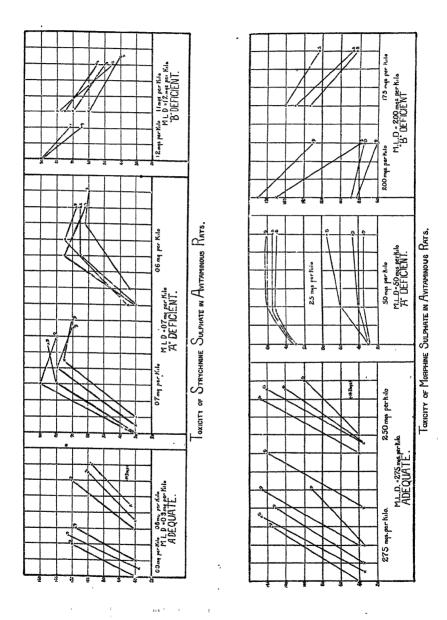
- 2. Central nervous system depressants (chloral hydrate, morphine).
- 3. Cardiac stimulants (crystalline strophanthin).
- 4. Autonomic drugs (atropine, pilocarpine, ergotoxine).
- 5. Capillary drugs and substances affecting cell permeability (histamine, pituitary principle, CaCl₂).
  - 6. General protoplasmic poisons (quinine).
  - 7. Miscellaneous (apomorphine, apocodeine, arsenic).

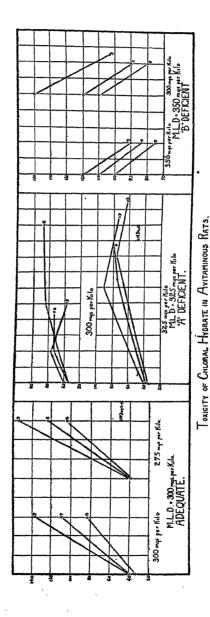
The results of this study are given in the following series of tables. The minimum lethal dose (M. L. D.) is the lowest dose which kills at least 50 per cent of the animals.

	Adequate			-B	-A	
Dose, mg. per kilo	Number of ani- mals used	Result ¹	Number of ani- muls used	. Result ¹	Number of ani- mais used	Result ¹
1.2 1.1 1.0 0.9 0.8 0.7	1 3 3 3	+++	2 3 3	++	1 4 4	++++
M. L. D	0,9 mg. pe	r kilo	1.2 mg p	er kilo	0.7 mg. p	er kilo.

Table 1-Toxicity of strychnine sulphate

¹⁺ indicates death; - recovery.





50 mg. per kilo

200 mg. per kilo

Table 2.—Toxicity of cocaine hydrochloride

1.	ABLE 2	-Toxicity of	cocaine	hydrochtoride	3	
	A	dequate		-В		-A
Dose, mg. per kilo	Number of ani- mals used	Result	Number of ani- mals used	Result	Number of ani- mals used	Result
15.0 10 0 8.0 6.0 4.0	3 3 4	+++ ++- 	4 3 3	++++	23333	++ ++-
M. L D	10.0 r	ng. per kilo	15.0 r	ng. per kilo	8.0 mg	g per kile
	TABLE 3	3.—Toxicity	of atropi	ne sulphate		
	A	dequate		-В		-A
Dose, nig. per kilo	Number of ani- mals used	Result	Number of ani- mals used	Result	Number of ani- mals used	Result
125.0 100.0 75.0 60.0 40.0	2 3 4	++	3 3 4	+++	2 2 3 3 2	++ ++ ++- +
M. L. D	125 n	ng. per kilo	125 n	ng. per kilo	75 nig	per kilo
Table 4	1.—Toxi	city of crysta	lline stro	phanthin (ou	abaïn)	
	Adequate			-В		-1
Dose, mg. per kilo	Number of am- mals used	Result	Number of ani- mals used	Result	Number of ani- mals used	Result
25 0 20.0 18.0 16.0 14.0	2 6 5 3	+++	5 6 5 3	++++ +++ 	3 5 4	++++ ++++
10.0 8.0					6 5	++
M, L, D	16.0 r	ng. per kilo	18.0 r	ng. per kilo	12.0 m	g. per kilo
,	TABLE 5	.—Toxicity o	f morph	ine sulphate		
	Adequate			-В		-A
Dose, mg. per kilo	Number of ani- mals used	Result	Number of ani- mals used	Result	Number of ani- mals used	Result
300. 275. 250. 225. 280.	3 6 4 4	+++ ++++; +	3 2 3	+++ ++ +++ +++	3 3 2 3	+++ +++ ++ ++ ++
175. 150. 100. 75. 50. 25.			3 3		3 3 3 3 3	+++

M L. D.....

275 mg. per kilo

TABLE 6 .- Toxicity of chloral hydrate

7	CABLE 6.	-Toxicity	of chlor	al hydrate		
	Ad	equate		-в		-A
1	Number of ani- mals used	Result	Number of ani- mals used	Result	Number of ant- mals used	Result
850	3 3 3 3	++-	3 3 3	++-	1 3 3 3	+++
M. L. D	360 m	ig. per kilo	350 n	ng pei kilo	325 mg	g. per kilo
TAD	LE 7.—1	oxicity of p	iloca: pir	ne hydrochlor	·ide	
	A	lequate		-B		-7
Dose, mg per kilo	Number of ani- mals used	Result	Number of ani- mals used	Result	Number of ani- nials used	Result
150 125 100 75 50	3 3 3 3 8	+++ ++- +	3 5 4	++	3 3 3	+++
M. L. D	125 m	ng, per kilo		g, per kilo	125 mg	g. per kilo
T	ABLE S	-Toxicaty of	ergotox	ine phosphat	e	
	A	lequate	-В			-A
Dose, mg. per kilo	Number of ani- mals used	Results	Number of ani- mals used	Results	Number of am- mals used	Results
40	3 3 4 3 4	++-	1 4 3 4	+++-	3 3 3 3 3 3 3	++- ++- ++- ++-
M. L. D	40 m	g. per kilo	20 n	ug. per kilo	6 mg.	per kilo
T.	ABLE 9	-Toxicity of	histam	ine phosphat	te	
	. Adequate			-В		-A
Dose, mg. per kilo	Number of ani- mals used	Results	Number of ani- mals used	Results	Number of am- mals used	Results
600 900 400 300	5.7	+++	3 4 3	+++	4 5 4	+++-
M. L. Dali		ng. per kilo	75001	mg. per kilo	400 m	g, per kilo

Table 10.—Toxicity of pituitary active principle (standard infundibular powder (18))

		powaer	(18))			
	Αć	lequate		-В		-A
Dose, mg. per kilo	Number of ani- mals used	Result	Number of ani- mals used	Result	Number of ani- mals used	Result
200	3 3 3 6	+++ + ++	6 4 6 4	++++	3 4 4 5	++- + +
M. L. D	200 m	g. per kilo	200 m	g. per kilo	200 m	g. per kilo
ı	Table 1	1.—Toxicity	of calciu	ım chloride		
	Ac	lequate		-в		-A
Dose, mg. per kilo	Number of ani- mals used	Result	Number of ani- mals used	Result	Number of ani- inals used	Result
150 125 100	2 3 3	++	3 3 4 3	+++ +++ ++ +	3 3 3	++-
M. L. D	125 m	g. per kilo	100 m	ıg, per kılo	125 m	g. per kilo
TAI	3LE 12.—	-Toxicity of	quinine o	dihydrochlori	le	
	A	dequate		-в		-A
Dose, mg. per kilo	Number of ani- mals used	Result	Number of ani- nials used	Result	Number of ani- mals used	
73. 50. 40.	2 3 3 3	++-+-	4 3 4	++	3 3	++-
M. L. D	50 m	g. per kilo	50 m	ng, per kilo	50 mg	g, per kila
	TABLI	a 13.—Toxic	ity of ars	senoxide 1	Contract Section and the Parkets	and any and any and any and any and any
,	A	dequate		-B		-4
Dose, c. c. M /100 per kilo	Number of ani- mals used	Result	Number of eni- mals used	Result	Number of ani- mals used	Result
10.0 7.5 5.0	7 8	++++++	7 7	   <del>+ + + + + + + + + + + + + + + + + + +</del>	G 6	+++++

¹ This was a preparation made by Dr. J. M. Johnson in this laboratory. According to numerous experiments with this preparation by Miss H. Dyer of this laboratory, the M. L. D. for the normal rat is 7.5 to 10.0 c. c. M/100 per kilo.

7.5 c. c. per kilo

10.0 c. c. per Kilo!

7.5 c. c. per kilo!

M, L. D....

TABLE 14.—Toxicity of apomorphine hydrochloride

	Adequate			-В	-A		
Dose, mg. rer kilo	Number of ani- mals used	Result	Number of ani- mals used	Result	Number of ani- mals used	Result	
50	3 2	++-	2	++	3	+++	
30. 20.	3	+	- 3		3 3		
M, L. D	50 m	g. per kilo	50 m	ng, per kilo	50 mg	g. per kilo	

Table 15 .- Toxicity of apocodeine hydrochloride

	Adcquate			-В	-А		
Dose, mg. per kilo	Number of ani- mals used	Result	Number of ani- mals used	Result	Number of ani- mals used	Result	
20	2 3 3	++	3 5 5	+++	1 2 3 3	+ ++ +-=	
M. L. D	20 m	ıg. per kilo	20 m	ig, per kilo	15 mg	, per kilo	

The results detailed in the foregoing tables may now be summarized so as to show the relative toxicity of the substances studied for the three groups of animals. If the susceptibility of the group of animals on the adequate diet to the several poisons examined be expressed as 100 per cent, then the relative susceptibilities of the two groups on the vitamin deficient diets may be expressed as follows:

Substance	Vitamin B deficient	Vitamin A deficient
Etrychnine sulphate Cocame hydrochloride. Atropine sulphate Ouabain. Morphine sulphate. Chloral hydrate. Pilocarpine hydrochloride Ergoto ine phosphate. Histamine. Pituitary principle. Calcium chloride. Quinine dihydrochloride. Arsenoxide. Apomorphine hydrochloride. Apomorphine hydrochloride. Apomorphine hydrochloride. Apomorphine hydrochloride.	75 66 109 90 137 86 250 200 120 100 125 100 100	130 125 165 133 550 92 100 666 150 100 100 75 100

In discussing these results we are fully aware of the fact, that, in some instances, the number of animals used for the determination of the minimum lethal dose is inadequate for arriving at anything but approximate figures. However, the purpose of the work was to

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establish gross differences and not slight deviations from the normal. Keeping this fact in mind we believe that these figures clearly indicate an enormously increased susceptibility of the vitamin A deficient group to the alkaloids morphine and ergotoxine, and a greatly increased susceptibility of the B-deficient group to pilocarpine and to It will be noted that central nervous system stimulants generally, such as strychnine, cocaine, and atropine, as well as ouabain and apocodeine, which also appear to produce in the rat, symptoms predominantly referable to the central nervous system, are all appreciably more toxic to the vitamin A deficient animal than to the adequately nourished control. The resistance of the vitamin B deficient animal to these poisons, on the other hand, seems to be either unchanged or actually somewhat increased. The other substances examined, with the exception of histamine, appear to affect alike the adequately nourished and the vitamin-deficient animals. histamine being definitely more toxic to the vitamin A deficient animal than to the control. The susceptibility of vitamin-deficient animals to apomorphine is unchanged, in spite of its close resemblance chemically to morphine.

#### DISCUSSION

If we attempt to classify the results obtained in this study on the basis of pharmacological action as related to altered susceptibility induced by vitamin deficiencies, we find that no generalizations are possible. Thus the two central nervous system depressants, morphine and chloral hydrate, show a wide difference in effects, vitamin A deficiency increasing the susceptibility of the animal to the one more than fivefold, but not at all to the other. On the other hand, the susceptibility to morphine and ergotoxine, two substances of widely different pharmacological action, is altered in nearly the same manner by this deficiency.

Examination of the influence of vitamin deficiency upon the toxicity of substances for which the rat normally enjoys a natural immunity shows that here too there is lack of uniformity. Thus, both deficiencies, and more especially vitamin A deficiency, increase the susceptibility of the experimental animal to histamine; and they are without appreciable effect upon susceptibility to pituitary active principle, while ouabain toxicity is somewhat increased by A deficiency and diminished by B deficiency.

Do these experiments throw any light on the nature of vitamin action in the animal organism? The lowered blood pressure in avitaminosis noted by Baldwin, Cook, and Nelson (12) is ascribed by them to a weakened myocardium. The fact that neither vitamin A nor

t It should be added, however, that some recent observations on the toxicity of the active principle of pituitary on intravenous injection in laboratory animals indicate that the rabbit and cat are at least as tolerant as the rat (200 mgs. per kilo is tolerated by both species), and that the guinea pig apparently is the only animal showing a high susceptibility to this substance, 10 mg. per kilo being fatai.

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vitamin B deficiency alters to any great extent the susceptibility of the experimental animal to either chloral hydrate or ouabain, the one a cardiac depressant, the other a stimulant of the myocardium, would indicate that the cause of the lowered blood pressure must be looked for elsewhere in the cardio-vascular apparatus. The greatly increased susceptibility to ergotoxine in the case of both deficiencies points to an altered function of the autonomic division of the central nervous system. The assumption that vitamin deficiencies damage the sympathetic mechanism controlling vascular tone would appear to explain the observed facts satisfactorily. The decreased resistance of the B-deficient animal to pilocarpine and that of the A-deficient animal to the several nerve poisons would indicate that the impairment of the nervous system, though perhaps most marked in the autonomic division, is more or less general. The greatly increased susceptibility of the A-deficient animal to morphine in particular suggests a much weakened respiratory center. Sluggish circulation and weakened respiratory center would account satisfactorily for the frequent occurrence of pulmonary congestion and lung disease in rats on vitamin A deficient diet.

If it were permissible to draw conclusions from reasoning by analogy we would venture to suggest that the action of tuberculin in the tuberculous organism is on the autonomic mechanism controlling cardiovascular tone, and possibly to some extent also on the capillaries.

It is, of course, possible that the ability of the tissues of the vitamindeficient animal to detoxify certain poisons may be reduced. This appears likely from a consideration of the relative toxicity of morphine and apomorphine in the avitaminous animal. Morphine is normally detoxified probably largely through oxidation. The indications are from some recent studies on the subject that cellular oxidation is reduced in avitaminosis (19), (20). We would reserve for future study the question of detoxification in avitaminosis.

#### SUMMARY AND CONCLUSIONS

A study was made of the toxicity of a number of pharmacologic agents in vitamin-deficient rats.

Increased susceptibility to pilocarpine and ergotoxine was observed in vitamin B deficient animals.

Rats on vitamin A deficient diet showed a much lowered resistance to ergotoxine and to morphine. Definite though slight, increase in susceptibility was also noted to histamine, ouabain, and to the alkaloids strychnine, atropine, cocaine, and apocodeine.

The bearing of these findings on the mechanism of vitamin action in the animal organism is discussed. A possible mode of action of authorculin in the tuberculous animal is also pointed out.

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### PUBLIC HEALTH ENGINEERING ABSTRACTS

Progress in the Purification of Water Supplies. Norman J. Howard, Bacteriologist in Charge of Water Purification, Toronto, Ontario. *Contract Record*, vol. 39, No. 52, December 30, 1925. Pages 133-138. (Abstracted by Rudolph E. Thompson.)

Progress in water purification during 1925 is reviewed, the phases of the subject dealt with being double filtration, slow sand and rapid sand filtration, sedimentation and coagulation, algal growths, pipe incrustation, softening, ultra-violet ray treatment, sodium iodide treatment and goiter, water standards, B. coli test, and removal of taste from chlorinated waters. The method of superchlorination and dechlorination has recently been experimented with at Toronto as a means of correcting the latter difficulty, and this process will be tried on a large scale in the near future. Employment of double filtration to cope with the ever increasing pollution is extending.

Relation Between Stream Pollution and Extent of Sewage Treatment Required. J. K. Hoskins. American City, vol. 34, No. 3, March, 1926. Pages 254-256. (Abstracted by H. N. Old.)

There is briefly discussed the relationship between stream pollution and sewage treatment in connection with public water supplies

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and nuisance prevention, which are the two extremes in the matter of receiving-stream utilization.

In considering the matter of protection of water supplies down-stream, there is given the result of studies of carefully collected data of a number of cities tending to show the  $B.\ coli$  concentration, the seasonal variation in concentration, the seasonal variation of bacterial decrease in streams, and demonstrating that, if these relationships hold good it is possible to predict the number of  $B.\ coli$  remaining in the stream after stated intervals of elapsed time of flow (and distance) from the sewer outlet, where the initial concentration is known, or where the sewered population and the volume of stream flow are obtainable. A formula for determining  $B.\ coli$  concentration is given, based on these observations.

Studies of efficiency of water treatment plants appear to point out that there are quite definite limits to permissible loading if safe effluents are to be produced, depending to a reasonable degree on type of treatment adopted.

In the matter of nuisance prevention there must be avoided the septic or putrefactive activity incident to the oxygen requirement of the contained organic matter exceeding the available dissolved oxygen supply of the stream. In order successfully to deal with such a condition it is essential to have some concrete knowledge of the oxygen demand of the sewage, the rate of oxidation of organic matter in the receiving stream, and of the rate of aeration or replenishment of dissolved oxygen. It is stated that observations thus far made indicate that time, temperature, degree of mixing or turbulence, concentration of organic matter, and, perhaps, various other factors must be taken into consideration for each specific case.

The average 10-day oxygen demand of domestic sewage is given as about 0.22 pound per day. By study of each individual case there may be determined with sufficient accuracy just what maximum limit of organic pollution may be countenanced, or on the other hand, the minimum dissolved oxygen supply which must be maintained.

One table is given showing seasonal (monthly) variation of *B. coli* per cubic centimeter per capita in one second-foot stream flow, ranging from 26 in January to 226 in June. Two tables (one each for summer and winter) giving number of *B. coli* per cubic centimeter remaining after stated times of flow from point of maximum concentration are included.

The Installation of Ponds for Propagating Gambusia at Impounded Water Projects. S. F. Hildebrand. Transactions of Fifth Conference of Malaria Field Workers, U. S. Public Health Service, Public Health Bulletin No. 156, 1925. Pages 98-102. (Abstracted by S. F. Hildebrand.)

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A brief reference to the beneficial results to be gained through the presence of large numbers of Gambusia in impounded waters is made; then the problem of obtaining Gambusia in abundance is discussed. The only sure way to get these fish in most localities is to propagate them. In some localities old ponds can be used as they exist. It is, however, often necessary to destroy predatory fish before Gambusia can be grown in large numbers in such ponds. Where old ponds are not available, it is necessary to build new ones. Naturally swampy areas and areas below springs are generally the most desirable places for locating the ponds; for in such areas the ponds seldom go dry, and aquatic plants and small animals, constituting protection and food for the fish, ordinarily already are present or quickly become established. Where swampy areas and springs do not exist, ponds may be built in or adjacent to streams.

The fish ponds may be built on the area to be flooded, causing the fish to be liberated in the new lake as the water rises, or they may be built in suitable areas near the lake. In any event it is regarded as desirable to have one or more fish ponds adjacent to the lake, from which a supply of fish may be obtained, if needed, after flooding has been completed.

Artificial feeding of the brood stock and young fish on alternate days with finely chopped meat or fish, or with bread, generally stimulates reproduction and makes for rapid growth and is an aid in propagating large numbers of *Gambusia* in ponds.

Railway Pioneers in Malarial Control in South. H. W. Van Hovenberg. *The Nation's Health*, vol. 8, No. 2, February 15, 1926. Pages 88-89. (Abstracted by C. G. Gillespie.)

The malaria damage or bill to the country is placed at \$100,000,000 annually. Ten years ago the St. Louis Southwestern Railway Lines discovered that fully 10 per cent of their employees received hospital treatment for malaria yearly, and that many others were unfit for work because of the disease. The sanitary engineering department was provided in 1917. To-day a scant score of railroad patients are hospitalized for malaria, in place of fully 6,000 annually. railroad cooperated with cities and towns in controlling breeding places, but bore most of the cost, sometimes in the ratio of 5 to 1. Now the cities assume full responsibility. The railroad developed comprehensive educational campaigns using the exhibition car "Anopheles," carrying models of mosquitoes which showed their characteristics; model stock ponds and the use of larvae-eating fish; proper and improper methods of screening houses; and means for protecting against the chimney road of entrance. Health models were set up in assembly halls in schools and lectures suited to the age of the children were given. In Arkansas a malaria essay contest was

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started with cash prizes. The car was equipped with a moving-picture machine. Quinine has been used in sections where maintenance men can not benefit from eradication campaigns. The economic results have been marvelous.

The Passage of North American Anopheles Through Screens of Various Sized Mesh. Elliot H. Gage. Public Health Bulletin No. 156, 1925. Pages 44-45. (Abstracted by J. A. LePrince.)

These investigations indicate that under certain conditions A. punctipennis and A. quadrimaculatus do not pass through the 12-mesh or 14-mesh wire cloth used. It was shown that A. crucians could pass through 12-mesh wire occasionally, but not through 14-mesh wire cloth. Stegomyia (Aëdes argentus) passed through 12-mesh and 14-mesh wire cloth. The writer is of the opinion that for protection against Anopheles the workmanship of screen installation is of more importance than the question of the selection of size of 14 or 16 mesh wire.

These studies were made both with adult Anopheles captured in nature and with Anopheles bred from collected larvae, and inducements were offered to have them pass through the 12, 14, and 16 mesh wire cloth used.

River Pollution with Special Reference to Present and Prospective Legislation. Gilbert Thomson. Journal Royal Sanitary Institute, vol. 46, No. 8, January, 1926. Pages 355-363. (Abstracted by A. S. Bedell.)

The writer briefly discusses the defects of the existing rivers pollution prevention act of 1876, especially with reference to the provisions regarding trade wastes which tend to protect the industries. He feels that the time is ripe for revision, which should be based on the reports of the Royal Commission on Sewage Disposal, particularly the eighth report issued in 1912.

Among the various standards and criteria set up in the report, the following are noted: (1) The limit of permissible pollution is that the river must not be rendered offensive or incapable of supporting fish life; (2) 4 parts per million of biochemical oxygen demand is the "limiting figure" which a stream, after receiving a polluting discharge, should not exceed; (3) the general standard for effluents is that suspended solids should not exceed 30 parts per million and the biochemical oxygen demand should not exceed 20 parts per million.

In considering the question of dilution the writer makes some pertinent suggestions regarding standards for sewage flow, river flow, and storm overflows. Domestic sewage being in strict proportion to population, sewage flow should be based on "standard sewage" (25–30 gallons per capita per day) and not on actual flow. Dry weather river flow may readily be calculated as one-third of the aver-

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age flow based on drainage area and rainfall, with a deduction for evaporation. With regard to storm overflows, the present practice is to require that anything up to six times the dry weather flow must be taken to the disposal works, where three times the dry weather flow is to be fully treated and the remainder treated by simple settlement. If the dry weather flow is based on standard sewage calculations, this standard may require modification for very dilute sewages.

The writer suggests that, in addition to standards for effluents from various industries as discharged into stream, standards should be set up for effluents discharged into sewers, such discharges to be permitted only through accessible manholes.

Good Technique Eliminates Germs from Dairy Utensils. M. J. Prucha, Ph. D., Professor of Dairy Bacteriology, University of Illinois, Urbana, Ill. *The Nation's Health*, vol. 8, No. 2, February 15, 1926. Pages 98-100. (Abstracted by C. G. Gillespie.)

Market milk contains probably from 100,000 to over 1,000,000 bacteria per cubic centimeter, 80 per cent of which comes from Improvements in handling milk and in the number of containers has increased greatly in the past 30 years. A modern milk plant has vats, storage tanks, sanitary plumbing, clarifiers and filters, pasteurizers, coolers, bottle fillers, and much interconnecting piping. All these serve to open the way for bacterial contamination. Utensils must be washed visibly clean and sterilized. The paper discusses sterilization. The methods used include rinsing, sun drying, mechanical drying, chemical sterilization, and heat. Steam sterilization was studied by the division of dairy bacteriology, University of Illinois. In the case of steam sterilization, cans run as high as over 38,000,000,000 bacteria per can, and as low as almost zero. Two parts steam to one part of can capacity barely affected the bacterial content of the can; five to one would mean an increase in the milk of 1,000 bacteria per cubic centimeter; nine to one, 100 per cubic centimeter; and eleven to one less than 10 per cubic centimeter. The author recommends 9 to 12 cubic feet per 8-gallon can. The higher the pressure, the shorter the time required for sterilization. Most satisfactory results were obtained in from 15 to 30 seconds' steaming. The steaming of the exterior of utensils is very inefficient. Autoclaving is employed considerably and is effective. Each steam chamber must be studied by itself. Two quarts of boiling water are as effective in sterilizing as 10 cubic feet of steam in jet steaming. About 70 per cent of the bacteria are removed by rinsing with a quart or more of water per can. Even with sterilization, multiplication occurs in the shipping can. Drying, as an adjunct to sterilizing, is helpful. Inverting uncovered utensils is a good practice. Chemical sterilizers must impart no odor and must

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be harmless. The chlorine group of disinfectants fulfill these conditions. Sodium hypochlorite is sold in liquid form; the chloramin-T is a dry crystal. Chloramin-T is slower to sterilize but retains its strength longer. Alkalies and organic matter retard the action.

Protecting Milk at its Source. Robert Balderston. From the Department of Public Health, Philadelphia, vol. 11, Nos. 1 and 2, January and February, 1926. Pages 7-10. (Abstracted by E. S. Tisdale.)

Throughout the Philadelphia milk shed a remarkable degree of protection of milk has been brought about by educational and cooperative means. The work of the quality control department of the Philadelphia Interstate Dairy Council was begun about five years ago and is a State and municipal cooperative effort to improve the Philadelphia milk supply. Year by year the educational work has gone on. The farmers have been gradually required to raise their standards of milk protection, since cooperating milk dealers would accept milk only from farms maintaining approved conditions. So effective has been the work of 13 farm-bred and college-trained young inspectors that the farmer now adheres closely to the sanitary regulations of the dairy council and produces a high quality of milk. The work of the quality control department of the dairy council safeguards the milk from cow to consumer, and this means safety and health to those living in the Philadelphia district.

### DEATHS DURING WEEK ENDED APRIL 10, 1926

Summary of information received by telegraph from industrial insurance companies for week ended April 10, 1926, and corresponding week of 1925. (From the Weekly Health Index, April 13, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week ended Apr. 10, 1926	Corresponding week, 1925
Policies in force	63, 969, 770	59, 365, 205
Number of death claims	17, 105	11, 270
Death claims per 1,000 policies in force, annual rate.	13. 9	9. 9

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Deaths from all causes in certain large cities of the United States during the week ended April 10, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health index, April 13, 1926, issued by the Bureau of the Census, Department of Commerce)

City   Total   Death deaths   Total (08 cities)   9,633   17 4   14.0   1,140   seek Apr 10, 1925   1925	***************************************						
Total   Death deaths				death rate per			Infant mortality
Akron.	City			1,000 corre- sponding week,	ended Apr 10,	sponding week,	week ended Apr. 10 1926 ²
Albany '	Total (68 cities)	9, 653	17 4	14. 0	1, 140	887	3 94
Atlanta							160
White.			24. 3	16. 8			63
Baltimore 4	White				4		
White	Colored		(3)				
Colored   60   (3)   10   10   White   38   22.3   20.8   13   6   White   39   (1)   8   5   Colored   49   (1)   8   8   S   S   S   S   S   S   S   S	White		11. 0	14 9	18	23	82 64
White	Colored	60	(5)		10		162
Colored	Birmingham	88	22. 3	20.8		6	
Boston	Colored		(5)		8		
Buffalo   212   20.5   16.8   34   28   Cambridge   44   19.2   18.7   6   8   Cambridge   33   13.4   12.2   3   2   Canton   22   11.8   15.2   7   1   Chicago 4   819   14.3   12.4   97   107   Chicago 4   819   14.3   12.4   97   107   Chicago 4   819   14.3   12.4   97   107   Chicago 4   819   14.3   12.4   97   107   Chicago 4   819   14.3   12.4   97   107   Chicago 4   819   14.3   12.4   35   21   Columbus   102   19.0   15.5   3   8   State of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of	Boston	304		17. 6	33		93
Cambridge.	Bridgeport						102
Camden         33         13 4         12 2         3         2           Canton         24         11.8         15 2         7         1           Chicago (         819         14 3         12 4         97         107           Cincinnati         290         16.2         12.4         35         21           Columbus         102         19 0         15.5         3         8           Dallas         49         13.2         14.8         8         10           White         49         13.7         18.9         11         10           Des Moines         36         12.6         14.7         1         6           Detroit         450         18.8         10.7         103         41           Driuth         18         8.5         12.7         4         4           Erie         43         14.0         10.3         41           Erie         43         15.9         15.9         6         5           Erie         43         14.0         1.6         3         2           Fort Worth         22         21.0         12.5         5         10 <tr< td=""><td>Cambridge</td><td></td><td></td><td>187</td><td></td><td></td><td>142 100</td></tr<>	Cambridge			187			142 100
Canton	Camden	33	13 4	12 2	3	2	51
Cincumati         205         26 1         15.0         13         9           Cleveland         291         16.2         12.4         35         21           Columbus         102         19 0         15.5         3         8           Dallas         40         8         8         10           White         40         8         8         10           Denver         74         13 7         18.9         11         10           Des Moines         36         12.6         14.7         1         6           Detroit         450         18.8         10.7         103         41           Driuth         18         8.5         12.7         4         4           El Paso         32         15.9         16.9         6         5           Erle         43         12.7         4         4         4         1         10         10         10         10         10         10         11         10         10         10         10         10         10         10         10         10         10         13         10         11         10         10         10         <	Canton			15 2			156
Columbus   102   16.2   12.4   35   21   21   21   21   21   21   21   2	Cincinnati	205	26 1	15 0			86 81
Dallas	Cleveland	291	16. 2		35		91
White	Columbus			15, 5	3		28
Colored   9   (3)   7   18.9   11   10   10   10   10   10   10   1			15. 2	14.8	8	10	
Des Moines	Colored	9	(5)		0		
Detroit		74	13 7				17
Driluth							166
Frile	Duluth	18	8.5	12.7	4	4	91
Fail River 4 52 21.0 12.5 5 10 Filint	El Paso	32	15.9	15.9	6	5	57
Filth	Fall River 4		21.0	12.5	5		73
White 21		35	14.0		3	2	- 50
Colored   2	Fort Worth	23	7.9	9.2	1	2	
Houston	Colored		(5)				
White Colored 13 (5) 1 1 1 8 1 1 8 1 1 1 1 1 1 1 1 1 1 1 1	Grand Rapids	53	18.0		11		159
Colored   13   (5)   1   1   8	Houston		17. 1	15.8	3	6	
Indianapolis	Colored		(5)		í		
Colored 19	Indianapolis	123		16.0		8	81
Jacksonville, Fla.   46   22 4   14.9   6   3   White.   19	White	104			11		93
While	Jacksonville, Fla	45	22 4	14.9	6	3	125
Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Variety   Vari					3		98 172
White 29 (5) 0  Colored 9 (5) 0  Kansas City, Mo 129 18.3 17.7 13 12  Los Angeles 270 22 27  Louisville 131 22.6 15.7 17 8  White 103 (7) 8  Colored 28 (7) 8  Lowell 44 20.8 15.1 8 4  Lynn 28 14.2 20.7 2 5  Memphs 85 25.4 22.7 10 11  White 41 3  Colored 44 (4) 7 7  Miwauke 161 16.7 14.6 23 12  Minneapolis 125 15.3 15.4 11 10  Nashville 4  Minneapolis 125 15.3 15.4 11 10  Nashville 4  Minneapolis 125 15.3 15.4 11 10  Nashville 4  White 33	Jersey (lity	101	16.7	19 4	13	0	172
White 29 (5) 0  Colored 9 (5) 0  Kansas City, Mo 129 18.3 17.7 13 12  Los Angeles 270 22 27  Louisville 131 22.6 15.7 17 8  White 103 (7) 8  Colored 28 (7) 8  Lowell 44 20.8 15.1 8 4  Lynn 28 14.2 20.7 2 5  Memphs 85 25.4 22.7 10 11  White 41 3  Colored 44 (4) 7 7  Miwauke 161 16.7 14.6 23 12  Minneapolis 125 15.3 15.4 11 10  Nashville 4  Minneapolis 125 15.3 15.4 11 10  Nashville 4  Minneapolis 125 15.3 15.4 11 10  Nashville 4  White 33	Kansas City, Kans	38	17.1	15.7	4		92 69
Colored   131   22.6   15.7   17   8   White   103   28   (*)   3   3   2   2   5   3   4   4   2   2   2   5   3   4   2   2   2   5   3   3   3   2   2   3   3   3   3   3	White	29					. 84
Colored   131   22.6   15.7   17   8   White   103   28   (*)   3   3   2   2   5   3   4   4   2   2   2   5   3   4   2   2   2   5   3   3   3   2   2   3   3   3   3   3	Kansas City, Mo		(0)	17.7		12	. 0
White				.	22	27	61
Colored 28 (*) 3 4 4 20.8 15.1 8 4 4 Lynn 28 14.2 20.7 2 5 5 8 14.2 20.7 2 5 5 8 1 5 1 8 4 1 2 20.7 2 5 5 8 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Louisville	131	22, 6	15.7	17	8	116
Lowell	Colored		(6)				140 188
Lynn.     28     14.2     20.7     2     5       Memphis.     85     25.4     22.7     10     11       White.     41     3     3       Colored.     44     (*)     7     7       Milwaukee.     161     16.7     14.6     23     12       Minneapolis.     125     15.3     15.4     11     10       Nashville *     60     23.0     19.5     8     5       White.     33     3     3	Lowell	44	20.8		8		149
White     41     (5)     7       Colored     44     (6)     7       Milwaukee     161     18.7     14.6     23     12       Minneapolis     125     15.3     15.4     11     10       Nashville     60     23.0     19.5     8     5       White     33     3     3	Lynn	28	14.2	20.7	2		50
Colored         44         (*)         7         3         12           Milwaukee         161         16, 7         14, 6         23         12           Minneapolis         125         15, 3         15, 4         11         10           Nashville         60         23.0         19, 5         8         5           White         33         3         3         3		85	25.4	22.7		111	
Milwaukee.     161     16.7     14.6     28     12       Minneapolis.     125     15.3     15.4     11     10       Nashville 4     60     23.0     19.5     8     5       White.     33     3     3	Colored	44	(4)		7		
Nashville 4 60 23.0 19.5 8 5	Milwaukee	161	16.7		23	12	130
White	Nashville +	125	15,3	15.4			61
V	White	33		10.0	. 3		
Colored 27 (4) 5	Colored.	27	(5)	1	1 5		

Footnotes on p. 786.

Deaths from all causes in certain large cities of the United States during the week ended April 10, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925—Continued

						,
	Week en		Annual death rate per		under 1 ear	Infant mortality
City	Total deaths	Death rate ¹	1,000 corre- sponding week, 1925	Week ended Apr. 10, 1926	Corresponding week, 1925	week ended Apr. 10 1926 2
New Bedford New Haven New Orleans White Colored New York Bronx Borough	47 40 154 86 68 1,934 234	20. 5 11. 7 19. 4 	13. 1 12. 5 19 0	14 1 17 8 9 229 25	7 4 13  203 17	243 14 
Brooklyn Berough Manhattan Borough Queens Borough Richmond Borough Newark, N. J Norfolk White	32 15	15. 6 22. 1 11. 9 19. 2 19. 1	12. 5 16. 9 9. 7 17. 3 11. 9	80 94 23 7 16 0	78 83 19 6 5 4	81 104 104 123 77 0
Colored Oakland Oklahoma City	17 52 26	(5) 10.7	12.3	0 6 4	4 2 7	69
Omaha. Paterson. Philadelphia. Pittsburgh. Portland, Oreg. Providence. Richmond. White.	67 52 683 298 79 104 70 38	16.5 19.1 18.0 24.6 14.6 20.2 19.6	16.0 11.0 13.5 15.4 14.0 11.3 16.5	4 6 7 85 30 7 9	53 20 6 6 10	63 122 113 100 72 75 50 20
Colored Rochester St. Louis St. Paul St. Paul Salt Lake City 4 San Autonio San Diego San Francisco	32 100 295 69	(5) 16.5 18.7 14.6 17.5 17.4 17.2 17.3	15.0 15.6 14.8 11.9 15.3 16.7	11 28 5 2 6 4 7 3 9	9 13 5 2 9 4 7	105 88 44 28 84 42
Schenectady Seattle Somérville Spokane Springfield, Mass Syracuse Tacoma	33 59 28 21 49 45 26	18.5 14.7 10.1 18.0 12.9 13.0	17.4 19.2 9.9 15.8 8.0 13.8	3 9 2 1 8 6 2	1 8 7 3 3 8 0 5	87 83 52 23 116 76 47
Toledo. Trenton Washington, D. C. White Colored Waterbury. Wilmington, Del. Worcester Yonkers	57 157 100 57 30 39	18. 5 22. 5 16. 4 (5) 16. 7 24. 6 13. 3	9.8 15.9 8.3	21 10 11 5 3 6	10 1 2 6	107 134 119 83 201 107 70 69 112
Youngstown		16.3	8, 5	8	3	102

¹ Annual rate per 1,000 population.
2 Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.
3 Data for 63 cities.
4 Deaths for week ended Friday, Apr. 9, 1926.
5 In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas, 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norlolk 38, Richmond 32, and Washington, D. C., 25.

### PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

### UNITED STATES

### CURRENT WEEKLY STATE REPORTS

These reports are preliminary and the figures are subject to change when later returns are received by the State health officers

### Reports for Week Ended April 17, 1926

ALABAMA	g	ARKANSAS—continued	
	Cases	15	Cases
Cerebrospinal meningitis		Mumps	
Chicken pox	-	Pellagra	
Diphtheria		Scarlet fever	
Influenza		Smallpox	. 5
Malaria		Tuberculosis	- 9
Measles		Typhoid fever	. 3
Mumps		Whooping cough	_ 30
Ophthalmia neonatorum		CALIFORNIA	
Pellagra		CALIFORNIA	
Pneumonia		Cerebrospinal meningitis:	
Poliomyelitis		Los Angeles	_ 2
Scarlet fever		Sacramento	_ 3
Smallpox		San Francisco.	
Trachoma		Chicken pox	
Tuberculosis		Diphtheria	
Typhoid fever		Influenza	_ 23
Whooping cough	. 25	Lethargic encephalitis:	
ARIZONA		Monterey County	_ 1
Chicken pox	. 17	San Francisco	
Diphtheria	. 2	San Gabriel	
Influenza		Measles.	
Measles	. 3	Mumps	
Mumps		Poliomyelitis:	
Pneumonia	. 1	Los Angeles	_ 1
Scarlet fever		Los Angeles County.	
Tuberculosis		Scarlet fever	
Typhoid fever		Smallpox:	
Whooping cough	. 6	Los Angeles	_ 25
		Oakland	
Chicken pox	. 33	Scattering.	-
Diphtheria.		Typhoid fever:	- 15
		Calexico	_ 63
Influçuza Malaria			-
		Scattering.	•
Measles	. 31	Whooping cough	- 40

COLORADO		FLORIDA—continued	<b>a</b>
Ohlahan	Cases	m-1	Cases
Chicken pox	. 28	Tuberculosis	
Diphtheria	. 9	Typhoid fever	
Influenza Mencles		Whooping cough	47
Measles	-	GEORGIA	
Mumps		Chicken pox	
Pneumonia		Diphthena	
Tuberculosis		Dysentery	
Typhoid fever		Hookworm disease	
Whooping cough	27	Influenza	
wmoohurg congu	. 41	Malana	
CONNECTICUT		Measles	
		Mumps	
Cerebrospinal meningitis		Pellagra	
Chicken pox		Pneumonia	
Diphtheria		Scarlet fever	
German measles		Septic sore throat	
Influenza		Smallpox	
Measles		Tuberculosis	
Mumps		Typhoid fever	
Paratyphoid fever		Whooping cough	. 27
Pneumonia (broncho)		IDAHO	
Pneumonia (lobar)		Chicken pox	. 18
Searlet fever		Diphtheria	. 1
Tetanus. Tuberculosis (all forms)		Measles	. 11
		Mumps	
Whooping cough	. 91	Scables	. 4
DELAWARE		Scarlet fever	
	. 3	Smallpox	
Chicken pox		Tuberculosis	
Diphtheria Influenza	1	Typhoid fever	
Malaria		Whooping cough	. 17
Middig:			
Magelae		TLUNOIS	
Measles Preumonia	103	ILLINOIS	
Pneumonia	. 103 . 3	Cerebrospinal meningitis:	
PneumoniaScarlet fever	. 103 . 3 . 13	Cerebrospinal meningitis: Cook County	
Pneumonia	. 103 . 3 . 13	Cerebrospinal meningitis:  Cook County  Moultrie County	. 1
Pneumonia Scarlet fever Tuberculosis Whooping cough	. 103 . 3 . 13	Cerebrospinal meningitis:  Cook County  Moultrie County  Vermilion County	. 1
Pneumonia	. 103 . 3 . 13	Cerebrospinal meningitis:  Cook County  Moultrie County  Vermilion County  Diplotheria.	. 1 . 1
Pneumonia Scarlet fever Tuberculosis Whooping cough	103 3 13 5	Cerebrospinal meningitis: Cook County	. 1 . 1
Pneumonia Scarlet fever Tuberculosis Whooping cough DISTRICT OF COLUMBIA	103 3 13 5 2	Cerebrospinal meningitis: Cook County Moultrie County Vermilion County Diplutheria Influenza Lethargic encephalitis:	. 1 . 7 . 109
Pneumonia Scarlet fever Tuberculosis Whooping cough DISTRICT OF COLUMBIA Chicken pox.	103 3 13 5 2	Cerebrospinal meningitis:  Cook County	. 1 . 71 . 109
Pneumonia Scarlet fever. Tuberculosis Whooping cough DISTRICT OF COLUMBIA Chicken pox Diphtheria	103 3 13 5 2 24 14	Cerebrospinal meningitis:  Cook County	. 1 . 71 . 109
Pneumonia Scarlet fever. Tuberculosis Whooping cough DISTRICT OF COLUMBIA Chicken pox. Diphtheria Influenza.	103 3 13 5 2 24 14 2 615	Cerebrospinal meningitis: Cook County	. 1 . 71 . 109 . 3
Pneumonia Scarlet fever. Tuberculosis Whooping cough  DISTRICT OF COLUMBIA Chicken pox Diphtheria Influenza Measles Pellagra Pneumonia	103 3 13 5 2 24 14 2 615	Cerebrospinal meningitis:  Cook County	. 1 . 71 . 109 . 3 . 1 . 975 . 363
Pneumonia Scarlet fever. Tuberculosis Whooping cough  DISTRICT OF COLUMBIA Chicken pox Diphtheria Influenza. Measles Pellagra Pneumonia. Scarlet fever.	103 3 13 5 2 24 14 2 615 1 166	Cerebrospinal meningitis:     Cook County	. 1 . 71 . 109 . 3 . 1 . 975 . 363
Pneumonia Scarlet fever. Tuberculosis Whooping cough  DISTRICT OF COLUMBIA Chicken pox. Diphtheria Influenza. Measles Pellagra Pneumonia Scarlet fever. Tuberculosis.	103 3 13 5 2 24 14 2 615 1 16 17	Cerebrospinal meningitis:  Cook County	3 109 109 3 119 975 363
Pneumonia Scarlet fever. Tuberculosis Whooping cough  District of Columbia Chicken pox. Diphtheria Influenza. Measles Pellagra Pneumonia Scarlet fever Tuberculosis. Typhoid fever.	103 3 13 5 2 2 24 14 2 2 615 1 1, 56 17 25	Cerebrospinal meningitis:  Cook County	. 1 . 71 . 109 . 33 . 1 . 975 . 363 . 330
Pneumonia Scarlet fever. Tuberculosis Whooping cough  DISTRICT OF COLUMBIA Chicken pox. Diphtheria Influenza. Measles Pellagra Pneumonia Scarlet fever. Tuberculosis.	103 3 13 5 2 2 24 14 2 2 615 1 1, 56 17 25	Cerebrospinal meningitis:     Cook County	31 109 33 11 975 363 330 21 27
Pneumonia Scarlet fever. Tuberculosis Whooping cough  DISTRICT OF COLUMBIA Chicken pox. Diphtheria Influenza Measles Pellagra Pneumonia Scarlet fever. Tuberculosis Typhoid fever. Whooping cough	103 3 13 5 2 2 24 14 2 2 615 1 1, 56 17 25	Cerebrospinal meningitis:     Cook County	31 109 33 363 336 21 27 370
Pneumonia Scarlet fever. Tuberculosis Whooping cough  DISTRICT OF COLUMBIA Chicken pox. Diphtheria Influenza Measles Pellagra Pneumonia Scarlet fever. Tuberculosis Typhoid fever. Whooping cough	- 103 3	Cerebrospinal meningitis:     Cook County	31 109 33 330 330 330 330 8
Pneumonia Scarlet fever. Tuberculosis Whooping cough  DISTRICT OF COLUMBIA Chicken pox. Diphtheria Influenza. Measles. Pellagra Pneumonia Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough  FLORIDA Cerebrospinal meningitis.	103 3 13 5 2 2 - 24 14 2 615 1 17 25 11 41	Cerebrospinal meningitis:     Cook County.     Moultrie County.     Vermilion County.  Diplatheria. Influenza. Lethargic encephalitis:     Cook County.     Macoupin County.  Measles. Pneumonia. Scarlet fever. Smallpox: Hardin County. Scattering. Tuberculosis. Typhoid fever. Whooping cough.	31 109 33 330 330 330 330 8
Pneumonia Scarlet fever. Tuberculosis Whooping cough  DISTRICT OF COLUMBIA Chicken pox Diphtheria Influenza. Measles Pellagra Pneumona Scarlet fever. Tuberculosis Typhoid fever. Whooping cough  FLORIDA Cerebrospinal meningitis Chicken pox	- 103 - 3 - 13 - 5 - 2 - 24 - 14 - 2 - 615 - 17 - 25 - 17 - 25 - 41	Cerebrospinal meningitis: Cook County. Moultrie County. Vermilion County. Diphtheria. Influenza. Lethargic encephalitis: Cook County. Macoupin County. Measles. Pneumonia. Scarlet fever. Smallpox: Hardin County. Scattering. Tuberculosis. Typhod fever. Whooping cough	31 109 33 330 330 21 27 370 8 205
Pneumonia Scarlet fever. Tuberculosis Whooping cough  DISTRICT OF COLUMBIA Chicken pox Diphtheria Influenza. Measles Pellagra Pneumonia Scarlet fever. Tuberculosis Typhold fever. Whooping cough  FLORIDA Cerebrospinal meningitis Chicken pox Dengue.	103 3 13 5 2 24 14 2 615 17 25 17 25 11	Cerebrospinal meningitis: Cook County. Moultrie County. Vermilion County. Diphtheria. Influenza. Lethargic encephalitis: Cook County. Macoupin County. Measles. Pneumonia. Scarlet fever. Smallpox: Hardin County. Scattering. Tuberculosis. Typhoid fever. Whooping cough.  INDIANA Chicken pox.	. 11. 711. 109. 33. 11. 975. 363. 330. 21. 27. 370. 8
Pneumonia Scarlet fever. Tuberculosis Whooping cough  DISTRICT OF COLUMBIA Chicken pox. Diphtheria Influenza Measles Pellagra Pneumonia Scarlet fever. Tuberculosis Typhoid fever. Whooping cough  FLORIDA Cerebrospinal meningitis Chicken pox. Dengue. Diphtheria.	- 103 - 3 - 13 - 5 - 2 - 24 - 14 - 2 - 615 - 1 - 56 - 17 - 25 - 1 - 41	Cerebrospinal meningitis:     Cook County.     Moultrie County.     Vermilion County.  Diplatheria. Influenza. Lethargic encephalitis:     Cook County.     Macoupin County.  Messles. Pneumonia. Scarlet fever. Smallpox:     Hardin County. Scattering. Tuberculosis. Typhond fever. Whooping cough  INDIANA Chicken pox. Diphtheria.	31 109 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31 109 31
Pneumonia Scarlet fever. Tuberculosis Whooping cough  DISTRICT OF COLUMBIA Chicken pox. Diphtheria Influenza Measles Pellagra Pneumonia Scarlet fever. Tuberculosis Typhoid fever. Whooping cough  FLORIDA Cerebrospinal meningitis Chicken pox. Dengue. Diphtheria German measles	- 103 - 3 - 13 - 5 - 2 - 24 - 14 - 25 - 15 - 15 - 17 - 25 - 1 - 41 - 78 - 27 - 1	Cerebrospinal meningitis:     Cook County.     Moultrie County.     Vermilion County.  Diplatheria. Influenza. Lethargic encephalitis:     Cook County.     Macoupin County.  Measles. Pneumonia. Scarlet fever. Smallpox: Hardin County. Scattering. Tuberculosis. Typhoid fever. Whooping cough  INDIANA Chicken pox. Diphtheria. Influenza.	. 1 1 108 108 108 108 108 108 108 108 108
Pneumonia Scarlet fever. Tuberculosis Whooping cough  DISTRICT OF COLUMBIA Chicken pox Diphtheria Influenza. Measles Pellagra Preumoma Scarlet fever. Tuberculosis Typhoid fever. Whooping cough  FLORIDA Cerebrospinal meningitis Chicken pox Dengue. Diphtheria. German measles Influenza.	103 3 13 3 13 5 2 24 14 2 615 17 25 11 41 78 27 143	Cerebrospinal meningitis: Cook County. Moultrie County. Vermilion County. Diphtheria. Influenza. Lethargic encephalitis: Cook County. Macoupin County. Measles. Pneumonia. Scarlet fever. Smallpox: Hardin County. Scattering. Tuberculosis. Typhod fever. Whooping cough  Chicken pox. Diphtheria. Influenza. Measles.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Pneumonia Scarlet fever. Tuberculosis Whooping cough  DISTRICT OF COLUMBIA  Chicken pox. Diphtheria Influenza. Measles. Pellagra. Pneumonia Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough  FLORIDA  Cerebrospinal meningitis Chicken pox. Dengue. Diphtheria German measles Influenza. Lethargic encephalitis.	103 3 13 3 15 5 2 2 4 14 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1	Cerebrospinal meningitis:     Cook County.     Moultrie County.     Vermilion County. Diphtheria. Influenza. Lethargic encephalitis:     Cook County.     Macoupin County. Measles. Pneumonia. Scarlet fover. Smallpox:     Hardin County. Scattering. Tuberculosis. Typhond fever. Whooping cough      NDIANA Chicken pox. Diphtheria. Influenza. Measles. Mumps.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Pneumonia Scarlet fever. Tuberculosis Whooping cough  DISTRICT OF COLUMBIA Chicken pox. Diphtheria Influenza. Measles. Pellagra Pneumonia Scarlet fever. Tuberculosis Typhoid fever. Whooping cough  FLORIDA Cerebrospinal meningitis Chicken pox. Dengue. Diphtheria. German measles. Influenza.	- 103 - 3 - 13 - 13 - 5 - 2 - 24 - 14 - 2 - 615 - 1 - 56 - 17 - 56 - 17 - 41 - 78 - 41 - 1 - 78 - 41 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Cerebrospinal meningitis:     Cook County.     Moultrie County.     Vermilion County.  Diplatheria. Influenza. Lethargic encephalitis:     Cook County.     Macoupin County.  Measles. Pneumonia. Scarlet fever. Smallpox: Hardin County. Scattering. Tuberculosus. Typhond fever. Whooping cough  INDIANA Chicken pox. Diphtheria. Influenza. Measles. Mumps. Pneumonia.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Pneumonia Scarlet fever. Tuberculosis Whooping cough  DISTRICT OF COLUMBIA Chicken pox. Diphtheria Influenza. Measles. Pellagra Pneumonia Scarlet fever. Tuberculosis Typhoid fever. Whooping cough  FLORIDA Cerebrospinal meningitis Chicken pox. Dengue. Diphtheria German measles Influenza. Lethargic encephelitis Measles Measles Measles	- 103 3 - 13 3 - 13 5 - 2 - 24 - 14 - 25 - 1 - 25 - 1 - 41 - 78 - 27 - 1 - 41 - 1 - 78 - 27 - 1 - 41 - 1 - 78 - 27 - 1 - 41 - 1 - 78 - 27 - 1 - 41 - 1 - 78 - 27 - 1 - 43 - 1 - 12 - 82	Cerebrospinal meningitis:     Cook County.     Moultrie County.     Vermilion County.  Diplatheria. Influenza. Lethargic encephalitis:     Cook County. Macoupin County. Measles. Pneumonia. Scarlet fever. Smallpox:     Hardin County. Scattering. Tuberculosis. Typhod fever. Whooping cough  INDIANA Chicken pox. Diphtheria. Influenza. Measles. Mumps. Pneumonia. Poliomyelitis.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Pneumonia Scarlet fever. Tuberculosis Whooping cough  DISTRICT OF COLUMBIA  Chicken pox Diphtheria Influenza. Measles Pellagra Preumoma Scarlet fever Tuberculosis Typhoid fever Whooping cough  FLORIDA  Cerebrospinal meningitis Chicken pox Dengue Diphtheria Influenza. Lethargic encephalitis Malaria Measles Measles Mumps	103 3 13 3 15 5 2 2 4 14 2 5 1 1 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Cerebrospinal meningitis:  Cook County.  Moultrie County. Vermilion County.  Diphtheria. Influenza. Lethargic encephalitis: Cook County.  Macoupin County.  Measles. Pneumonia. Scarlet fever. Smallpox: Hardin County. Scattering. Tuberculosis. Typhod fever. Whooping cough  Chicken pox. Diphtheria. Influenza. Measles. Mumps. Pneumonia. Poliomyelitis. Scarlet fever.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Pneumonia Scarlet fever. Tuberculosis Whooping cough  DISTRICT OF COLUMBIA  Chicken pox. Diphtheria Influenza. Measles. Pellagra Pneumonia Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough  FLORIDA  Cerebrospinal meningitis Chicken pox. Dengue. Diphtheria German measles. Influenza. Lethargic encephalitis. Malaria Measles. Mumps. Pageumonia.	103 3 13 3 15 5 2 2 4 14 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1	Cerebrospinal meningitis: Cook County. Moultrie County. Vermilion County. Diplitheria. Influenza. Lethargic encephalitis: Cook County. Macoupin County. Measles. Pneumonia. Scarlet fover. Smallpox: Hardin County. Scattering. Tuberculosis. Typhoid fever. Whooping cough  NDIANA Chicken pox Diphtheria. Influenza. Measles. Mumps. Pneumonia. Poliomyelitis Scarlet fever. Smallpox.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Pneumonia Scarlet fever. Tuberculosis Whooping cough  DISTRICT OF COLUMBIA Chicken pox Diphtheria Influenza Measles Pellagra Pneumonia Scarlet fever. Tuberculosis Typhold fever Whooping cough  FLORIDA  Cerebrospinal meningitis Chicken pox Dengue Diphtheria German measles Influenza Lethargic encephelitis Malaria Measles Mumps Pagaumonia Poliomyelitis	103 3 3 13 3 5 2 2 4 14 14 2 5 1 1 12 82 2 27 1 1 12 82 2 27 1 1 12 82 1 10 1 10 1 10 1 10 1 10 1 10	Cerebrospinal meningitis:     Cook County.     Moultrie County.     Vermilion County.     Diplitheria.     Influenza. Lethargic encephalitis:     Cook County.     Macoupin County. Measles. Pneumonia. Scarlet fever. Smallpox:     Hardin County.     Scattering. Tuberculosis. Typhond fever. Whooping cough.  INDIANA Chicken pox. Diphtheria. Influenza. Measles. Mumps. Pneumonia. Poliomyelitis. Scarlet fever. Smallpox. Trachoma.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Pneumonia Scarlet fever. Tuberculosis Whooping cough  DISTRICT OF COLUMBIA  Chicken pox. Diphtheria Influenza. Measles. Pellagra Pneumonia Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough  FLORIDA  Cerebrospinal meningitis Chicken pox. Dengue. Diphtheria German measles. Influenza. Lethargic encephalitis. Malaria Measles. Mumps. Pageumonia.	103 3 3 13 3 5 2 2 4 14 14 15 16 17 8 27 1 12 82 27 150 1 5	Cerebrospinal meningitis: Cook County. Moultrie County. Vermilion County. Diplitheria. Influenza. Lethargic encephalitis: Cook County. Macoupin County. Measles. Pneumonia. Scarlet fover. Smallpox: Hardin County. Scattering. Tuberculosis. Typhoid fever. Whooping cough  NDIANA Chicken pox Diphtheria. Influenza. Measles. Mumps. Pneumonia. Poliomyelitis Scarlet fever. Smallpox.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

IOWA	_	MARYLAND 1			
	Cases		Cases		
Chicken pox		Cerebrospinal meningitis.			
Diphtheria		Chicken pox Diphtheria			
German measles		German measles			
Mumps		Influenza.	42		
Pneumonia		Lethargic encephalitis	1		
Scarlet fever		Malaria	ĭ		
Smallpox	1	Measles	695		
Tuberculosis		Mumps	262		
Whooping cough		Paratyphoid fever	2		
Kansas		Pneumonia (broncho)	77		
AANSAS		Pneumonia (lobar)	83		
Cerebrospinal meningitis:		Scarlet fever	69		
Americus		Septic sore throat	2		
Harris		Trachoma	2		
Isabel		Tuberculosis	79		
Chicken pox		Typhoid fever	8		
Diphtheria		Whooping cough	55		
German measles		MASSACHUSETTS			
InfluenzaMeasles			_		
Mumps		Cerebrospinal meningitis	2 122		
Pneumonia		Chicken pox Conjunctivitis (suppurative)	15		
Rabies		Diphtheria	41		
Scarlet fever		German measles	297		
Smallpox:		Influenza	132		
Oakley	. 14	Lethargie encephalitis	1		
Scattering		Measles	881		
Tetanus	. 1	Munips	122		
Tuberculosis	. 32	Ophthalmia neonatorum	28		
Typhoid fever		Pellagra	1 218		
Whooping cough	. 183	Pneumonia (lobar) Poliomyelitis	1		
LOUISIANA		Scarlet fever			
		Septic sore throat	1		
Cerebrospinal meningitis		Smallpox	4		
Diphtheria		Trachoma	٠ 1		
Influenza		Trichinosis	1		
Malaria		Tuberculosis (pulmonary)			
Measles		Tuberculosis (other forms)			
Pneumonia		Typhoid fever	8		
Scarlet feverSmallpox		Whooping cough	344		
Tuberculosis		michig an			
Typhoid fever		Diphtheria	51		
Whooping cough		Mensics.			
		Pneumonia			
MAINE		Scarlet fever	317		
Chicken pox		Smallpox			
Diphtheria		Tuberculosis			
German weesles		Typhoid fever	5 164		
Influenza		Whooping cough	¥ 0.F		
Lethargic encephalitis		MINNESOTA			
Measles		Chicken pox	126		
Mumps		Diphtheria.	70		
Paratyphoid fever		Measles	463		
Pneumonia		Pneumonia			
Scarlot fever		Scarlet fever			
Tuberculosis		Smallpox	,		
Typhoid fever		Tuberculosis			
Vincent's angina		Typhoid fever	1		
Whooping cough		Whooping cough	42		
1 mm 1 1 N mm 1 1					

1 Week ended Friday.

MISSISSIPPI	Cases	NEW YORK
Diphtheria	Cases 4	(Exclusive of New York City)
Influenza		Cases
Scarlet fever		Cerebrospinal meningitis
Smallpox		Chicken pox 185
Typhoid fever		Diphtheria 73
1 yphola level		Dysentery
MISSOURI		German measles298
Chicken pox	71	Influenza 54
Diphtheria	64	Lethargic encephalitis
Influenza		Measles 1,74
Measles		Mumps 100
Mumps		Paratyphoid fever
Pneumonia		Pneumonia 41
Rabies (in animals)		Poliomyelitis
Scarlet fever		Scarlet fever 25
Smallpox		Septic sore throat
Trachoma		Smallpox 1
Tuberculosis		Typhoid fever
Typhoid fever	. 2	Vincent's angina
Whooping cough	. 97	Whooping cough 41
MONTANA		OKLAHOMA
Chicken pox	. 29	
German measles		(Exclusive of Oklahoma City and Tulsa)
Influenza		Cerebrospinal meningitis—Tillman County_
Measles		Chicken pox
Mumps		Diphtheria 1
Scarlet fever		Influenza 86
Tuberculosis		Malaria 1
Whooping cough		Measles 7
		Mumps
NEBRASKA		Pellagra
Chicken pox	. 22	Pneumonia 12
Influenza		Scarlet fever 4
Measles		Smallpox 10
Mumps		Typhoid fever
Pneumonia		Whooping cough
Scarlet fever		OREGON
Smallpox		
Tuberculosis	. 1	Cerebrospinal meningitis
Whooping cough	16	Chicken pox
MANUTANCENT		Diphtheria 2
NEW JERSEY		Influenza 31
Cerebrospinal meningitis	. 2	Measies 74
Chicken pox	145	Mumps 20
Diphtheria		Rocky Mountain spotted fever
Influenza		Scarlet fever
Measles		Smallpox 11
Pneumonia		Tuberculosis
Scarlet fever		Typhoid fever
Typhoid fever		Whooping cough 55
Whooping cough	75	
NEW MEXICO		PENNSYLVANIA
Cerebrospinal meningitis	1	Actinomycosis—Springdale
Chicken pox.		Cerebrospinal meningitis:
Conjunctivitis	5	East Pittsburgh
Diphtheria	4	York
German measles	1	Chicken pox 226
Measles		Diphtheria 12
Mumps		German measles 33
Pneumonia	. 5	Impetigo contagiosa
Puerperal septicemia	. 1	Lethargic encephalitis
Scarlet fever	. 9	Measles 3,724
Tubereulosis	. 18	Mumps 20
Vincent's angina	. 4	Ophthalmia neonatorum—Philadelphia
Whooping cough	47	Pneumonia

PENNSYLVANIA—continued	Cases	UTAH	Cases
Scabies		Chicken pox	23
Scarlet fever	483	Diphtheria	-6
Smallpox		Measles	13
Tetanus—Reading		Mumps	34
Tuberculosis	135	Scarlet fever	1
Typhoid fever	22	Typhoid fever	1
Whooping cough	256	Whooping cough	190
	1		
RHODE ISLAND Chicken pov	. 1	VERMONT	
Diphtheria.	2	Chicken pox	22
German measles		Diphtheria	2
Influenza		Measles	23
Measles		Mumps	7
Mumps	,	Searlet fever	8
Ophthalmia neonatorum		Whooping cough	21
Scarlet fever		WASHINGTON	
Septic sore throat		WASHINGTON	
Tuberculosis	. 8	Cerebrospinal meningitis:	
Whooping cough.		Seattle	2
SOUTH DAKOTA		Spokane	2
Chicken pox	. 8	Chicken pox	65
Diphtheria		Diphtheria	11
Measles		German measles	118
Mumps		Measles	35
Pneumonia	. 3	Mumps	41
Scarlet fever	. 55	Pueumonia	1
Smallpox	. 10	Scarlet fever	116
Tuberculesis	. 5	Smallpox	75
Whooping cough		Tuberculosis	
TENNESSEE		Typhoid fever	_
		Whooping cough	U.
Cerebrospinal meningitis:		WEST VIRGINIA	
Memphis		Chicken pox	. 19
Nashville		Diphtheria	
Chicken pox		Influenza	
Diphtheria		Measles	
Influenza		Ophthalmia neonatorum	
Melaria Measles	-	Scarlet fever	
Mumps		Smallpox	. 3
Ophthalmia neonatorum		Tuberculosis	
Pellagra		Typhoid fever	, :
Pneumonia		Whooping cough	. 2
Scarlet fever		WISCONSIN	
Smallpox		Milwaukce:	
Tuberculosis		Chicken pox	. 99
Typhoid fever		Diphtheria	
Whooping cough		German measics	
		Influenza	
Anthrax	. 2	Mensles	
Chicken pox		Mumps	
Diphtheria	_ 22	Pneumonia	
Influenza		Scarlet fever	
Measles		Tuberculosis	
Mumps		Typhoid fever	
Paratyphoid fever	-	Whooping cough	
Pellagra		Scattering:	
Pneumonia		Cerebrospinal meningitis	
Scarlet fever		Chicken pox	. 7
Smallpox		Diphtheria	
Tuberculosis		German measles	7
Typhoid fever		Influenza	65
Whooning cough	36	Lethu sie enceobaldas	

wisconsin—continued	WYOMING				
Measles	1 39 127 1 2 23	Cerebrospinal meningitis—Sheridan Chicken pox Diphtheria German measles Measles Mumps Pneumonia Scallet fever Tuberculosis	13 3 8 1 7 2 34		
Typhoid fever Whooping cough		Whooping cough			

### Report for Week Ended April 10, 1926

NORTH DAKOTA	NORTH DAKOTA-continued					
(	Cases		Cases			
Chicken pot	27	Pneumonia	. 12			
Diphtheria	2	Scarlet fever	114			
German measles	110	Sniallpox	. 4			
Influenza	33	Typhoid fever	. 3			
Measles	72	Whooping cough				
Mumns	45					

### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Cere- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laria	Measles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
March, 1926		4								
Georgia Indiana Tennessee	2 4 3	34 101 44	4, 474 1, 432 3, 137	46 17	368 1,535	15 15	0 1 1	52 914 116	176 441 57	8 9 14

## · PNEUMONIA (ALL FORMS) AND INFLUENZA

Deaths reported in large cities of the United States during three-week periods ended April 11, 1925, and April 10, 1926

### PNEUMONIA (ALL FORMS)

,			Week e	nded-		
	Mar. 28, 1925	Mar 27, 1926	Apr. 4, 1925	Apr. 3, 1926	Apr. 11, 1925	Apr. 10, 1926
Atlanta.	12	14	9	12	11	14
BaltimoreBurmingham	48	56	49	46	47 13	41
Birmingnam	13 26	10 77	17 39	12 70	38	11
Boston Bridgeport	9	9	2	l al	3	7
Buffalo	20	35	2 22 7	72 7	23 10	52 7 25 2 6
Camden	6	5 11	í	12	10	6
Canton	9	5 205	10	4 165	2 8	ž
Chicago Cincinnati Clevelaud Columbus	96	205	96 20	165 34	80 22 32	98 28
Cleveland	23 23 22	37 74	23	82	32	52
Columbus	22		23 18	7	12	52 18
Dallas Denver	7	7 3 8	9	6 12	5	4
Detroit	48	112	41	85	18 36	4 5 92 3
Duluth.	1	4	2	4	6	3
Elizabeth	4	<u>-</u>	41 2 4 1	3	2 2 6 3	
Erie	2 3 7	7	1 1	10	6	1 4 3 7 8 5
Fall River Flint		1	1 8 2 6	4	š	3
Flint	4	14	2	11	5	7
Fort Worth Grand Rapids	2 6	7	5	7 8 23	3	5
Hartford.	6	12	6	23	3 7	14
Houston	3	6 29	24	27 25 7 27	2 17 29 18 14	14 7 22 29 22 39
Indianapolis Kansas City, Mo Los Angeles Louisyille	25 22 25 17	29	24	27	20	20
Los Angeles	25	20	23 17	7	18	22
Louisville	17	45	8	27	14	39
Lowell Lynn	6 3	. 6	8	9	5 3 18 21	12 3 9
Memphis Minneapolis	9	8	11	2 6	18	9
Minneapolis	19	11	25 7	10 15 25 11 12	21	22 10
NashvilleNew Bedford	6	16 15	Ŕ	25	6	21
New Haven	. 6	14	8 7	ii	4	10
New Orleans	4	15	11	12	9	10
New York	210 17	630 32	230 17	538 37	219 18	415
Norfolk.	4		3	10	5	3
Oakland Oklahoma City	. 1	3	9	6	5 2	7
Omaha	18	14	3 10	5 19	18	12
Philadelphia	71	161	52	102	55	109
Pittsburgh	48	60	<u>s</u>	79 6	39	26 3 7 2 12 109 72 6
Fortland, OregProvidence	10 16	26	10	32	55 39 12 5 1 8 7	19
Reading.	. 1	13	2	7	1	9
Richmond Rochester	. 4	8	4	8	8	.4
St Paul	10	14	14	10	15	10
St. Paul Salt Lake City	2 9	10 3 5 1 7 5 9	12 3	2	2	6
San Antonio.	. 9	5	5	8	5	8
San Diego	2 8	7	6 14	7	8	0
Schengetady	4	5		6	2	2
Sonierville Springfield, Mass. Syracuse Tacoma Toledo	3	9	3	32780027645	2576253	19 9 4 5 10 6 8 3 3 2 2 7 2 2 5 11 11 19 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Springheid, Mass	12	6 15	2 6	5 4	8	4
Tacoma	1 2	10	6		11	. 5
Toledo	5	8	6	13 8 12	2 3 11	11
Trenton	1 19	14 26	4 22	8	1 3	11
Waterbury		7	1 22	10	1	12
Waterbury Wilmington, Del Worcester	5 4	9	1	11		. 9
Worcester		21	13	20	9	29
Youngstown	. 5	9	1	14	4	1.4

# Deaths reported in large cities of the United States during three-week periods ended April 11, 1925, and April 10, 1926—Continued

### INFLUENZA

	Week ended—					
•	Mar 28, 1925	Mat 27, 1926	Apr. 4, 1925	Apr. 3, 1926	Apr. 11, 1925	Apr. 10, 1926
Atlanta Baltimore Birmingham	3 3	6 11 9 6	3 5 4	1 7 4 6	1 4 5 4	4 5 17 9
Boston Bridgeport Buffalo. Cambridge, Mass	3 2	5 11 3	1	11 10 2	1 2 1	11 18 1 1
Camden Canton Chicago Cincinnati	1 18 9	65 13	2 16 11	3 1 51 23	3 14 7	1
Cleveland Columbus Dallas Denver	12 1 1 2	33 5 4	5 9 4 18	37 2 3	7 2 5 2 7 2	29 24 28 1 1 1
Detroit Duluth Elizabeth El Paso	4	24 i	4	24	2	12
Erie Fall River Flint	i 1 1 1	5 3 1 4	2	6 1 4 5	1 2	11
Grand Rapids Hartford Houston	2	3 2 3 2	1 1 1 4	4 4 2	1 1	]
Indianapolis Kassas City, Mo Los Angeles Louisyille	17 8 1	11 1 1 12	8 4	10 2 1	3 8 2 1	1
Lowell Lynn Memphis Minneapolis	3 1	. 1	2 1 8	2 4 1	2 4	
Nashville New Bedfold New Haven New Orleans	1	17 2 2 8	6	9	4	i
New York Newark Norfolk Ogkland	28 1	133	23	113 2	19	7:
Oklahoma City- Omaha Philadelphin Pittsburgh	6 7	43 11	3	34 33	8	10
Portland, Oreg. Providence Reading. Richmond	4	7 2	2 3 3	20	3	30
Rochester St. Paul Salt Lake City		9 2		3	1	
San Antonio San Diego. San Francisco. Schenectady.	5 2	6 1 3 4	2 2 1	2 5 7	1	
Somerville Springfield, Mass Syracuse Tacoms	3 2	1 3 2	4 1 1	7	1 1	
Toledo Trenton Washington Waterbury	6	6 5	2 1 1 1	1 4 2	3	
Wilmington, Del. Worcester Youngstown	4	1 3	1	2 3	1	

795 April 23, 1926

#### PLAGUE ERADICATIVE MEASURES IN LOS ANGELES. CALIF.

The following items were taken from the report of plague eradicative measures from Los Angeles, Calif.:

#### Week ended Apr. 3, 1926:

Number of rats trapped	1, 414
Number of rats found to be plague infected	0
Number of squirrels examined	897
Number of squirrels found to be plague infected	0
Number of mice trapped	1, 557
Number of mice found to be plague infected	• 0
Date of discovery of last plague-infected rodent, Nov. 6, 1925.	
Date of last human case, Jan. 15, 1925.	

# GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended April 3, 1926, 36 States reported 1,090 cases of diphtheria. For the week ended April 4, 1925, the same States reported 1,483 cases of this disease. One hundred citics, situated in all parts of the country and having an aggregate population of more than 30,000,000, reported 706 cases of diphtheria for the week ended April 3, 1926. Last year for the corresponding week they reported 965 cases. The estimated expectancy for these cities was 946 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-three States reported 15,886 cases of measles for the week ended April 3, 1926, and 4,699 cases of this disease for the week ended April 4, 1925. One hundred cities reported 9,735 cases of measles for the week this year and 3,042 cases last year.

Poliomyelitis.—The health officers of 36 States reported 15 cases of poliomyelitis for the week ended April 3, 1926. The same States reported 7 cases for the week ended April 4, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-six States—this year, 3,666 cases; last year, 4,338 cases; 100 cities—this year, 1,706 cases; last year, 2,181 cases; estimated expectancy, 1,184 cases.

Smallpox.—For the week ended April 3, 1926, 36 States reported 806 cases of smallpox. Last year for the corresponding week they reported 902 cases. One hundred cities reported smallpox for the week as follows: 1926, 245 cases; 1925, 316; estimated expectancy 134 cases. Ten deaths from smallpox were reported by these cities for the week this year—at Los Angeles, Calif.

Typhoid fever.—One hundred and seventeen cases of typhoid fever were reported for the week ended April 3, 1926, by 35 States. For the corresponding week of 1925, the same States reported 208 cases of this disease. One hundred cities reported 58 cases of typhoid fever for the week this year and 48 cases for the corresponding week last year. The estimated expectancy for these cities was 45 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 95 cities, with a population of more than 29,700,000, as follows: 1926, 2,416 deaths; 1925, 1,291.

### City reports for week ended April 3, 1926

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy,

		Chick-	Diph	theria	Influ	ienza	35		
Division, State, and city	Population July 1, 1925, estimated	en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine: Portland New Hampshire: Concord	75, 333 22, 546	4	1	0	14	1	149	5	3
NashuaVermont:	29, 723	ő	0	0	0	0	1 0	0	1
Barre Massachusetts:	10, 008	0	0	0	0	0	0	0	0
Boston Fall River Springfield Worcester Rhode Island:	779, 620 128, 993 142, 065 190, 757	28 0 5 2	57 3 4 5	17 2 0 1	72 14 3 26	6 1 0 2	161 7 92 0	35 1 1 1	70 4 5 29
Pawtucket Providence Connecticut:	69, 760 267, 918	0	1 9	1 8	0 19	0 20	25 98	0	11 32
Bridgeport Hartford New Haven	160, 197 178, 927	0 1 8	7 7 3	1 4 0	30 10 2	11 4 1	1 31 54	0 0 1	9 23 11
MIDDLE ATLANTIC									
New York: Buffalo New York Rochester Syracuse New Jersey:	538, 016 5, 873, 356 316, 786 182, 003	17 98	12 245 8 6	7 156 10	15 502 6	10 113 3 1	2, 214 93	0 52 20	72 538 10 4
Camden	128, 642 452, 513 132, 020	9 20 1	5 18 4	1 9 0	2 27 2	.3 .2 1	32 401 8	0 8 0	12 37 8
Philadelphia Pittsburgh Reading	1, 979, 364 631, 563 112, 707	57 25 6	79 19 3	68 11 0		34 33	744 58 14	10 1 0	102 79 7
EAST NORTH CENTRAL Obio:	1		1				l		
Cincinnati Cleveland Columbus Toledo Indiana:	409, 333 936, 485 279, 836 287, 380	5 30 12 22	9 22 4 4	36 3 4	240 7 2	23 37 0 7	50 277 548 199	5 2 1 0	34 82 7 13
Fort Wayne Indianapolis Fort Haute Torre Haute	97, 846 358, 819 80, 091 71, 071	11 12 4 0	2 7 1 1	1 4 2 1	0	0 0 0 2	14 555 16 7	0000	5 27 2

No estimate made.

## City reports for week ended April 3, 1926-Continued

			Diph	theria	Influ	ienza			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
EAST NORTH CENTRAL— continued									
Illinois: Chicago Peoria Springfield Michigan:	2, 995, 239 81, 564 63, 923	66 2 8	95 2 1	55 2 0	157 0 3	51 0 3	107 0 24	8 5 8	165 7 3
Detroit  Flint  Grand Rapids  Wisconsin:	1, 245, 824 130, 316 153, 698	27 5 7	48 4 3	39 3 0	22 3 0	24 4 4	427 15 25	5 1 1	85 11 8
Kenosha Madison Milwaukee	50, 891 46, 385 509, 192	12 72 7	2 1 14	17 2	11	10	0 112 2	1 43	35
Racine Superior WEST NORTH CENTRAL	67, 707 39, 671	ó	2 1	ő	3 0	0	13	7 0	0 2
Minnesola: Duluth Minneapolis. St. Paul	110, 502 425, 435 246, 001	0 44 4	1 15 15	0 9 8	0 0	0 1 0	7 229 15	0 6 5	4 10 10
lowa: Davenport Des Moines Sioux City Waterloo	52, 469 141, 441 76, 411	1 0 4 4	0 2 1 0	0 1 1 0	0 20 0 0		319 2 5	0 10 1 0	
Missouri: Kansas City St. Joseph St. Louis North Dakota:	367, 481 78, 342	15 2 30	7 1 38	2 1 57	10 4 3	10 4 1	341 8 413	4 0 7	25 3
Fargo Grand Forks South Dakota:	26, 403 14, 811	3 0	0	0	0	0	0	19 0	0
Aberdeen Sioux Falls Nebraska:	1	8 3	0	0	0	0	3	1	0 2
Omaha Kansas:	f	4 4 10	3	0	0	3 0 2	23	. 0	19
Topeka	55, 411 88, 367	10	i	Ô	Ö	ő	138	ő	3
Delaware: Wilmington	122, 049	1	2	5	0	0	20	0	11
Maryland: Baltimore Cumberland	796, 296 33, 741	73	26 0	13	22	7 2	463 41	0	46 1
Frederick District of Columbia: Washington	12, 035 497, 906	0 34	10	18	5	4	431	0	1 12
Virginia: Lynchburg Norfolk Richmond Roanoke	186, 403	18 31 5	1 1 2 0	0 1 0 0	0	0 0 0 1	94 5 18 141	3 9	8
West Virginia: Charleston Huntington Wheeling	49, 019 63, 485	11 0 8	1 0 1	0 1 1	5	1 0	19	0	1
North Carolina: Raleigh Wilmington Winston-Salem	30, 371 37, 061	7 8	0	0	0	1	. ]	1 1	. 3
South Carelina: Charleston Columbia Greenville	73, 125 41, 225 27, 311	2 7 7	0	1 0	) 0	1 (	11 (		

¹ No estimate made.

^{87201°--26†-}

# City reports for week ended April 3, 1926-Continued

<u> </u>			Diph	theria	Influ	enza	25		
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, enses re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
SOUTH ATLANTIC—COD.									
Georgia: Atlanta Brunswick Savannah Florida:	(¹) 16,809 93,134	7 2 9	2 0 1	5 0 1	41 0 15	1 0 5	10 0 8	4 0 0	12 0 6
St. Petersburg Tampa	26, 847 94, 743	2	0 1	<u>ī</u> -	·ō	0	1	····i	8
EAST SOUTH (ENTRAL									
Kentucky: CovingtonLouisvilleTennessee:	58, 309 305, 935	9	0	2	19	0	397	0	7 27
Memphis Nashville Alabama:	174, 533 136, 220	30 3	5 0	4 2	0	4 9	52 43	9	6 15
Birmingham Mobile Montgomery	205, 670 65, 955 46, 481	9 1 0	2 1 0	3 0 0	60 0 1	4 1 0	59 1 4	4 1 22	12 2 0
WEST SOUTH CENTRAL									
Arkansas: Fort Smith Little Rock Louisiana:	31, 643 74, 216	6	0 1	0	0 2	<u>ō</u>	0 9	1 0	<u>5</u>
New Orleans Shreveport Oklahoma:	414, 493 57, 857	1 0	7	6	11 0	14 1	0	0	12 6
Oklahoma City Texas:	(1)	0	1	1	43	4	15	0	5
Dallas Gaiveston Houston San Autonio	194, 450 48, 375 164, 954 198, 069	27 0 2 0	3 0 2 1	0 6 0	4 0 0 0	2 0 2 4	0 0 0	000	6 1 4 8
MOUNTAIN									
Montana: Billings Great Falls Helena Missoula	17, 971 29, 883 12, 037 12, 668	2 4 0	0 0 0 1	0 0 1	0 0 0	0 0 0	6 0 0	0 0	1 0 0 0
Idaho: Boise Colorado.	23, 042	2	0	0	0	0	0	0	0
Denver Pueblo	280, 911 43, 787	42 9	9 1	9 1	ō	3 0	3 <u>1</u> 17	2	12 1
Arizona: Phoenix Utah:	38, 669	0	1	1	0	0	0	1	5
Salt Lake City Nevada:	130, 948	13	3	5	0	0	4	18	2
Reno	12, 665	0	0	0	0	0	0	0	1
Washington: Seattle Spokane	(1) 108, 897	20 10	5 3	1 0	0		33 0	23	
Tacoma Oregon: Portland	104, 455 282, 383	0	1	1	0	0	3 17	10	6
California: Los Angeles Sacramento San Francisco	(1) 72, 260 557, 530	50 5 38	39 1 21	58 2 15	13 2 3	2 2 2	7 0 49	17 5 17	7 2 7

^{&#}x27; 1 No estimate made.

# City reports for week ended April 3, 1926—Continued

	,		,			,	<del>,</del>		.,		
	Scarle	t fever		Smallpo	x	Tuber-	Ty	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ough, cases re- ported	Deaths, all causes
NEW ENGLAND											
Maine: Portland New Hampshire:	3	2	0	0	0	4	0	0	0	3	21 9
Concord Nashua Vermont:	0	0	0	0	ő	0	0	ő	0	0	6
Barre Massachusetts:	0	0	0	0	0	3	0	0	0	1	6
BostonFall River Springfield Worcester	64 3 6 10	98 5 3	0 0 0	0 0 0	-0 0 0	20 2 1 6	0 0 0	1 0 0 0	0 0 0	107 0 15 3	325 37 44 103
Rhode Island: Pawtucket Providence Connecticut:	1 8	2 8	1	0	0	1 3	0	0	0	0 2	32 156
Bridgeport Hartford Hew Haven	8 6 10	21 3 19	0 0 0	0	0 0 0	1 4 2	0 0 1	0 1 1	0 0 0	3 5 5	64 63 82
MIDDLE ATLANTIC											
New York: Buffalo New York Rochester Syracuse New Jersey:	21 264 17 15	15 200	0 1 0 0	0	0 0 0	1 114 4 1	0 8 0	0 11 0	0 1 0 0	37 67 26	249 2,026 89 46
Camden Newark Trenton	25 3	8 25 6	0	0 0	0 0 0	0 10 4	1 0 1	0 1 1	0 0	21 1	44 154 - 53
Pennsylvania: Philadelphia Pittsburgh Reading	76 22 4	84 59 4	0	0	0 0	31 17 0	3 1 0	1 0	0 0	31 49 2	569 307 28
EAST NORTH CEN											
Obio: Cincinnati	13	15	2	0	0	6	0	0	0	32	188
Cleveland Columbus Toledo Indiana:	25 9	87 18 6	1 2 5	0	0	20	1	1 0	0	151 4	357 90
Fort Wayne Indianapolis South Bend Terre Haute	3 9 4 3	7 8 4 1	2 4 1 1	0 21 0 3	0000	5	0	0	0	24	123 15
Illinois: Chicago Peoria Springfield		138 7 1	3 0 1	0	- 0	1	0	0		7	27
Michigan: Detroit Flint Grand Rapids	- 88	113 23 25	2 1 2	0		1 0	0	0	0	9	27
Wisconsin: Kenosha	3	1	1	0	1		. 0			_ 1	
Madison Milwaukee Racine Superior	- 29		- 1 5 1	0	1	) 1	0	0	1 0	) 34	18
WEST NORTH CEN- TRAL										-	
Minnesota: Duluth Minneapolis St. Paul	30 31	47	1 8	1) 0	1 (		3 1	1		10	105

¹ Pulmonary tuberculosis only.

City reports for week ended April 3, 1926-Continued

gramma and the transfer of the same of the transfer of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of	Scarle	t fever		Smallpo	z	Turbo-	Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases' re- ported	Deaths re- ported	Tuber- culo- sis, deaths re- ported	Cases, esti- mated expect- ancy	C'ases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST NORTH CENTRAL—COL.									ı	:	
Fowa: Davenport	1	4	3	0			0	0		2	
Des Moines Sioux City Waterloo	7 2 2	2 0 2	1 0	0 7			0	0		7 0 0	
Missouri: Kansas City	11	34	2	٥	0	10	0	0	0	34	139
St. Joseph St. Louis North Dakots:	2 34	200	4	10 10	. 0	7	2	0	0 -0	3 37	24 331
Fargo	2	1 0	0	0	0	0	0	1 0	0	0	5
Aberdeen Sioux Falls Nebraska:	2 2	9	0	0	0	0	0	0	0	3 0	<u>î</u>
Lineoln Omaha Kansas:	4 4	0 37	6	4 5	0	2 6	0	1 1	0	12 1	20 75
Topeka Wichita	3 2	4 2	1 3	1 0	0	1 0	0.	0	0	6 5	24 26
SOUTH ATLANTIC					,			•		,	
Delaware: Wilmington	2	9	0	0	0	2	1	0	0	2	36
Maryland: Baltimore Cumberland	36	27	1 0	0	0	12	2	0	0	39	247 13
Erederick District of Col: Washington	1 24	22	0 2	0	0	1 8	0	5	0	38	13 6 125
Virginia.	1	0	1	0	0	1	0		0	5	6
Norfolk Richmond Roanoke	1 2 1	6 14 1	0	0 0 1	0	2 8 1	0 0	0	0 0	5 0 0	55 27
West Virginia: Charleston	0	0	0	0	0	1	1	0	0	15	48
Huntington Wheeling North Carolina:	2	3	0	9	0	0 2	0	0	0	0	34
Raleigh Wilmington Winston	0	0	0	0	0	3 1	0	0	0	0 4	21 13
South Carolina:	0	2	5	0	0	3	0	0	0	0	23
Charleston Columbia Greenville Georgia:	0 0	0 2 2,	0 1	0 2 0	000	0	0 0 0	0 0	.0	1 0 3	26 14
Atlanta Brunswick	4 0 0	3 0 0	3 0	0	0	2 0	0	1 0	100	2 0	82 4
Savannah Florida: St. Petersburg	0		0	0	0	2 2	0	1	,0 ,0	0	39 23 35
Tampa EAST SOUTH CENTRAL	0	1	0	16	0	2	1	2	1	0	35
Kentucky:	2	·	0		0	1	,		-A		23
Covington Louisville Tennessee:	5	3	1	Ō	0	9	1	2	10	23	95
Memphis Nashville Alabama;	4 2	28 4	3 2	0	0	11	0	1 0	10	0	75 54
Birmingham Mobile Montgomery	1 1 0	5 6 2	8 1 1	11 0	0	9 3 0	0 0	3 0 0	10	.0 .13	65 29 8

# City reports for week ended April 3, 1926-Continued

	Scarle	t fever		Small	pox			Tuber		yphoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy		- 1	Death re- ported	- 1	culo- sis, death re-	Cases esti- mated	Cases	Deaths re- ported	cough, cases re- ported	Deaths, all causes
WEST SOUTH CENTRAL													
Arkansas: Fort Smith Little Rock	1 1	1 2	0		0		0	4	. 0	0	<u>-</u>	7 0	
New Orleans Shreveport Oklahoma	5 0 2	6 0 . 2	4 2 5		2 0 0	(	0	16 4 0	2 1 0	6 0 0	0	0	167 31
Oklahoma City Texas: Dallas Galveston	2 0	7 2	3 0		2 4	1	0	4 0	0	0	0	0 21 0	26 54 15
Houston San Antonio MOUNTAIN	1	1	0		2	i	0	11 11	0	0	0	0	.56 60
Montana: BillingsGreat FallsHelena Missoula	1 1 0 1	0 0 1 0	0 1 0 1		0 0 0 0	1	0000	0 1 0 1	0 0 0	0 0 0	0 0 0	0 3	8 7 2 9
Idaho: Boise Colorado.	1	. 0	0		3		0	0	0	0	0	1	5
Denver Pueblo	13 1	13 2	3 0		0		0	11 0	0	3 1	0	97 0	86 13
Arizona: Phoenix Utah:	0	1	0		1		o	12	0	0	0	0	34
Salt Lake City. Nevada:	3	0	1	1	3		0	1		0	0	51	24
Reno	1	0	1		0		0	0	0	0	0	0	4
Washington: SeattleSpokaneTacoma	9 4 2	23 26 2	3 7 2	ł	5 -		ō.	<u>1</u>	- 0	1 0	i	9 3	15
Portland	7	15	10		2		0	3	0	0	0	3	59
California: Los Angeles Sacramento San Francisco.	22 2 15	23 0 19	4 0 4	•	3 8		0	29 3 9	1	1 0 2	0 0 1	14 0 1	223 33 166
		Ce	rebrosp neningi	inal tis	l er	Letha	irg	ic itis	Pell	egra	Poliom	yelitis (i paralysis	nfantile )
Division, State,	and city	,	T			1					Cases,		
			ses D	eaths	Cá	ises	D	eaths	Cases	Deaths	esti- mated expect- ancy	Cases	Deaths
NEW ENGLA	ND		`										
New Hampshire: Concord			0	0	,	0		0	0	0	0	1	. 0
Massachusetts: Boston Worcester			2	1		0		0	0	0	1 0	0	0
MIDDLE ATLA			-							,			
New York: New York	·		8	2		17		6		0	. 0	1	1
New Jersey: Newark	·		0	0	,	. 1		. 0	0	0	0	.0	h. 0
Pennsylvania: Philadelphia			o l	0		2		1	0	0	0	1	

City reports for week ended April 3, 1926-Continued

	Cerebre	ospinal ngitis	Leth encep	argic halitis	Pelli	agra		relitis (ir aralysis)	
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
EAST NORTH CENTRAL									
Ohio: C'olumbus Illinois:	0	0	0	1	0	0	0	0	0
('hirago Michigan:	3	2	0	0	0	0	0	1	0
Detroit	1	0	2	1	0	0	0	0	0
Wisconsin: Ratine	2	1	0	0	0	0	0	0	0
WEST NORTH CENTRAL				]					
Iowa' Sioux City	1	0	0	0	0	0	0	. 0	6
Missouri: St. Louis	l	l	0	0	0	0	i	0	9
SOUTH ATLANTIC	1	0		, ,	1	۳	0	U	U
Maryland:		1					1		
Bultimore	_	0	2	0	0	0	0	0	0
Wheeling Georgia:	0	0	1	1	0	0	0	0	0
Atlanta	1	1	. 0	0	1 0	0	0	0	0
EAST SOUTH CENTRAL			į					ļ	
Kentucky: Louisville	1	0	. 0	0	0	0	0	0	0
Tennessee Memphis	0	0	i 0	0	0	3	0	0	0
Alabama: Birmingham	1	0	0	0	2	0	0	0	0
Mobile	ĭ	ĭ	ŏ	ő	Õ	ĭ	ě	ŏ	ŏ
MOUNTAIN			1	1	1				1
Montana: Missoula	1	0	0	0	. 0	. 0	0	۱ 0	0
Colorado: Denver	. 0	0	1 0	1	. 6	. 0	0	; 0	0
PACIFIC		"	1	1	1		1	!	1
W ishington:		1 .			į .	1		İ	
Seattle Spokane	1 5	0	0	0	0	0	Ö	0	0
Tacoma Oregon:	ł	1	0	0	0	0	1 0	0	0
Portland	1	0	0	0	0	, 0	0	, 0	0
Los Angeles Sacramento	0	0	0	0	0	1	0	U	0
San Francisco		ő	1	1	0		Ö	ő	ŏ

The following table gives the rates per 100,000 population for 103 cities for the five-week period ended April 3, 1926, compared with those for a like period ended April 4, 1925. The population figures used in computing the rates are approximate estimates as of July 1, 1925 and 1926, respectively, authoritative figures for many of the cities not being available. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and more than 29,750,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, February 28 to April 3, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925 1

ח	TPI	THE	RTA	CASE	RA	TES

	-	D 1 1 1 1	11191011	L	RATI	95				
					Week e	nded—				
	Mar. 7, 1925	Mar. 6, 1926	Mar. 11, 1925	Mar. 13, 1926	Mar. 21, 1925	Mar. 20, 1926	Mar. 28, 1925	Mar. 27, 1926	Apr. 4, 1925	Apr. 3, 1926
103 cities	156	: 124	162	۰ 114	161	120	5 162	6 131	170	7 12
Yew England.  Aiddle Atlantic.  Last North Cential.  Sest North Cential.  Sest North Cential.  Sest South Cential.  West South Cential.  Acuntain.  Pacific.	166 167 273 68 58	95 111 123 235 109 47 103 189		78 112 9 107 214 86 4 28 103 109 148	19d 125 193 129 63	128 125 98 144 69 128 103 7.3 283	115 230 104 239 90 53 111 129 5 170	146 1 62 4 39 155	165 240 86 213 77 21 79 120 350	8 13 9 11 15 9 4 6 14 20
	,	MEA	sles (	CASE 1	RATES	<del>'</del>	·	·	·	
103 cities	403	21, 883	433	⁵ 1, 693	487	1, 786	5 489	¹ 1, 837	537	7 1, 68
New England. Middle Atlantic East North Central. West North Central. South Atlantic East South Central West Suith Central Mountain Pacific	66 94 79 22	2, 446 1, 840 2, 691 2 845 2, 697 1, 323 17 209 278	138	1, 969 1, 713 1, 713 1, 637 1, 637 1, 2, 267 41, 499 1, 39 337 326	700 5.5 726 90 179 63 40 555 180	1, 725 1, 855 1, 991 1, 872 2, 795 42, 408 43 328 321	630	1, 347 1, 835 2, 088 2, 306 102,750 43, 096 125 310 453	923 731 685 74 198 63 84 213 199	1, 4 ⁴ 8 1, 85 9 1, 56 2, 35 2, 66 4 3, 06 5
THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF THE PERSON NAMED TO A PARTY OF	sc	ARLE	r fev	ER CA	SE RA	TES	11	1	11	1
103 cities	381	² 290	415	3 303	411	4301	5 403	6 325	394	7 2
New England. Middle Atlantic. East North Central West North Central. South Atlantic East South Central. West South Central. West South Central. Adjuntain. Pacific.	403 752 161 179 176 277	347 185 345 2815 163 187 90 337 313	515 437 460 697 207 326 101 194 218	333 192 9 370 893 150 4 149 112 218 251	525 416 460 768 138 263 128 416 207	404 202 340 800 158 154 138 246 250	582 404 449 731 157 263 97 240 5 211	355 210 407 889 10 156 4 149 146 209 288	515 434 412 713 165 242 48 268 182	3: 8 2: 9 3: 7 1 4 2: 1. 2
		SMAI	LIPOX	CASE	RATE	es				
103 cities	60	² 50	59	3 40	61	1 36	8 5G	6 38	55	7
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	40 1111 48 599 70	0 23 2 62 100 67 194 36	0 5 37 121 56 410 70 92 235	0 9 19 67 49 4 72 142 18 262	0 8 30 98 54 593 101 65 202	0 20 49 60 4 88 138 64	0 7 31 131 63 389 101 18	0 10 57 10 96 4 61 142 27 210	12 21 22 84 46 378 41 18 243	4 1

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1925 and 1926, respectively.

² Kansas City, Mo., not included.

² Madison, Wis., and Covington, Ky., not included.

² Covington, Ky., not included.

³ Spokane, Wish., not included.

³ Norfolk, Va., and Covington, Ky., not included.

² Rochester, N. Y., Madison, Wis., and Covington, Ky., not included.

³ Rochester, N. Y., not included.

³ Madison, Wis., not included.

³ Madison, Wis., not included.

Summary of weekly reports from cities, February 28 to April 3, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925—Continued

TYPHOID FEVER CASE RATES

					Week e	ended-				
	Mar. 7, 1925	Mar. 6, 1926	Mar. 14, 1925	Mar. 13, 1926	Mar. 21, 1925	Mar. 20, 1926	Mar. 28, 1925	Mar. 27, 1926	Apr. 4, 1925	Apr. 3, 1926
103 cities	10	² 10	9	3 8	11	4 6	6 10	68	8	7 10
New England. Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Myst South Central Myst South Central Mountain Pacific	8	12 4 5 20 6 10 39 146 16	5 5 3 10 23 32 26 18 14	5 7 9 4 4 8 4 6 4 146 0	29 8 6 8 21 42 22 0	0 4 3 2 21 4 22 9 5	12 7 3 6 12 53 40 0 4 26	0 10 4 2 10 16 4 17 9 27 13	5 4 3 2 29 16 31 0 19	7 88 93 8 17 433 34 36
	I	NFLU	ENZA :	DEATI	RAT	ES		,		
96 cities	30	² 51	33	9 71	40	76	31	10 97	33	9 89
New England Middle Atlantie East North Central West North Central South Atlantie East South Central West South Central Mountain Pacific	17 15 25 34 50 95 135 18 25	12 68 14 2 5 47 250 432 100 32	34 24 31 32 31 84 102 46 15	24 105 32 35 77 197 104 146 21	29 29 46 40 50 110 73 46 11	45 95 65 31 51 223 156 46 18	29 22 38 44 12 79 34 37 47	69 111 104 38 10 82 254 123 64 14	34 21 36 38 27 63 34 176 25	109 100 110 110 38 58 99 109 27 21
	P	NEUM	ONIA	DEAT	H RAT	ES				
96 citles	196	2 269	214	9 325	208	372	197	10 372	197	° 335
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Puesific	251 247	187 357 206 296 340 311 387 237	220 213 226 169 232 336 (69 203 138	255 300	204 216 208 167 275 263 169 166 116	357 503 355 114 349 400 270 200 99	198	430 493 351 159 10 330 477 175 191 117	242 214 171 186 219 247 160 157 142	468 432 321 159 284 358 108 155 57

⁷ Kochester, N. Y., Madison, Wis. and Covington, Ky, not included.

⁸ Madison, Wis., and Covington, Ky, not included.

⁹ Covington, Ky, not included.

⁹ Nochester, N. Y., Madison, Wis. and Covington, Ky, not included.

⁹ Rochester, N. Y., Madison, Wis. and Covington, Ky, not included.

⁹ Rochester, N. Y., Madison, Wis. and Covington, Ky, not included.

⁹ Madison, Wis. not included.

⁹ Madison, Wis., and Covington, Wis. and Covington, Ky, not included.

¹ Norfolk, Va., not included.

¹ Norfolk, Va., not included.

¹ Norfolk, Va., not included.

¹ Norfolk, Va., not included.

² Norfolk, Va., not included.

³ Norfolk, Va., not included.

⁴ Norfolk, Va., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively

Group of cities	Number of cities reporting	Number of cities reporting	Aggregate of cities cases	population reporting	Aggregate of cities deaths	population reporting
	eases	deaths	1925	1926	1925	1926
Total	103	96	29, 944, 996	30, 478, 129	29, 251, 658	29, 764, 201
New England. Middle Atlantic. East North Central West North Central South Atlantic. East South Central West South Central West South Central West South Central Mountain.	· 12 10 16 14 21 7 8 9	12 10 16 11 21 6 9 4	2, 176, 124 10, 346, 970 7, 481, 656 2, 594, 962 2, 716, 070 993, 108 1, 184, 057 563, 912 1, 888, 142	2, 206, 124 10, 476, 970 7, 655, 436 2, 634, 667 1, 004, 953 1, 212, 057 572, 773 1, 934, 084	2, 176, 124 10, 346, 970 7, 481, 656 2, 461, 380 2, 716, 970 993, 103 1, 078, 198 563, 912 1, 434, 245	2, 206, 124 10, 476, 970 7, 655, 436 2, 499, 036 2, 776, 070 1, 004, 958 1, 103, 695 572, 773 1, 469, 144

## FOREIGN AND INSULAR

### THE FAR EAST

Reports for the weeks ended March 20 and March 27, 1926.—The following reports for the weeks ended March 20 and March 27, 1926, were transmitted by the far eastern bureau of the health section of the League of Nations' secretariat, located at Singapore, to the head-quarters at Geneva:

WEEK ENDED MARCH 20, 1926

	Pla	gue	Cho	dera		nail- ox		Pla	gue	Cho	lera		all-
Port	Cases	Deaths	Cases	Deaths	Cases	Deaths	Port	Cases	Deaths	Cases	Deaths	Cases	Deaths
Calcutta. Bombay. Madras. Rangoon Karachi Negapatam Colombo Basra Singapore Port Swettenham Pensang Batavia Surabaya Samarang Cheribon Belawan Deli Palembang Padang (Sumatra) Sabang (Rhio) Makassar Menada Banjernassin Banjernassin Banjernassin Banjernassin Deliky Manila Lollo Jolo Cebu Zamboanga Bangkok Sangana Banjekok Salgon and Cholon Haiphong Tourane Hongkong Shanghai Amoy Nagasaki Yokokama Simonweki Moji	101000010110000000000000000000000000000	1 0	000000000000000000000000000000000000000	450422000000000000000000000000000000000	477216422099000000000000000000000000000000000	\$2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Kobe Osaka Nilgata Tsuruga Hakodate Keelung (Formosa) Fusan Chemulpo Dairen Adelaide Brishane Fremantle Melbourne Sydney Rockhampton Townsville Port Darwin Broome Port Moresby Auckland Wellington Christchurch Invercargill Noumea (New Caledonia) Honolulu Suez Tor Quarantine Station Alexandria Port Said Mombasa (Kenya) Zanzibar Massowah Djibuti Berbera Mozambique Lourenco Marques Durban East London Port Elizabeth Cape Tewn Port Louis (Mauritius) Seychelles		000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	

### WEEK ENDED MARCH 27, 1926

	Plag	gue	Cho	lera		all-		Pla	gue	Cho	lera	Sm	
Port	('ases	Deaths	Cases	Deaths	Cases	Deaths	Port	₍ วรคร	Deaths	Cases	Deaths	Cases	Deaths
Calenthi Bombay Madras Rangoon Karach Negapatam Colombo Basra Singa-pore Port Swettenham Penang Batavia Samarang Cheribon Belawan Deli Palembang Padang (Sumatra) Sabang (Rhio) Makassar Menada Bailermassin Balik-Papan Tamkan Pontianak (Boraco) Sandakan (Notih Borneo) Kuching (Sarawak) Timur Dilly Manila Iliolia Jolo C'ebu Zamboanga Bangkok Saigon and Cholon Haiphong Tourane Hongkong Shangbai Amoy Nagasaki Akoji.	000000000000000000000000000000000000000	000014000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	44 57 7 10 3 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0	26 13 1 1 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Kobe Osake Osake Osake Osake Nagata Tsuruga Hakodate Keelung (Formosa) Fusan Chemulpo Dairen Adelaide Brisbane Fremantle Melbourne Sydney Rockhampton Towns ille Port Dai win Broome Port Moresby Auckland Wellington Christchuich Invercargill Noumea (New Caledonia) Honolulu Suez Tor Quarantine Station Alexandria Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port Suid Port	000000000000000000000000000000000000000	000000000000000000000000000000000000000				

#### CANADA

Communicable diseases—March 28-April 3, 1926.—The following table shows the number of certain communicable diseases reported inseven Provinces of Canada during the week ended April 3, 1926. The information was supplied by the Canadian Ministry of Health.

Discase	Nova Scotia	New Bruns- wick	Quebec	Ontario	Mani- toba	Sas- katch- ewan	Albertu	Total
Cerebrospinal fever Influenza Smallpox Typhoid fever	43		4	1 6 2	1 4 4	1	1	1 44 12 10

#### CUBA

Communicable diseases—Provinces—January 1-31, 1926.—Cases of disease were notified in the Provinces of Cuba for the month of January, 1925, as follows:

Disease	Pinar del rio	Habana	Matan- zas	Santa Clara	Cama- guay	Oriente	Total
Cerebrospinal meningitis Chicken pox Diphtheria Malaria Measles Paratyphoid fever Scarlet fever Tetanus (infantile) Typhoid fever	$\frac{1}{2}$	50 14 72 103 3 16	1 7 3 4 149 19	11 9 4 14 6 7	2 1 1 43 4	2 7 1 680 72 1 1	5 84 29 804 344 28 25 3 95

#### HAWAII TERRITORY

Plague—A fatal case of plague was reported at Kakuihaele, Island of Hawaii, March 19, 1926.

#### PANAMA CANAL

Communicable diseases—February, 1926.—During the month of February, 1926, communicable diseases were reported in the Canal Zone, Colon, and Panama, as follows:

Discase	Canal	Zone	Co	lon	Pan	ama	Infected local		To	tal
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
Chicken pox Diphthetia Dysentery Hookworm disease Malaria	1 3 1	2	1 1 5 1	1	2 9 6 43	1	1 1 6 32 30	1	4 14 14 82 86	1 2 3
Measles Meningitis Mumps Pneumonia	1 6	1		2	2	16	6	3	10 1 12	1
Tuberculosis Typhoid fever Whooping cough	7	11	1 1	10 1		2 		2	1 8	21 25 1

#### PERU

Plague—February, 1926.—During the month of February, 1926, cases and deaths from plague were reported in Peru as follows:

Place	Cases	Deaths	Place	Cases	Deaths
Ayabaca Barranca y Supe Callao Canete Chiclayo Chimbote (country) Chincha Chota Contumanza Cutervo Guadalupe	1 5 3 5 2	0 0 1 0 4 3 1 2 3 0 0	Huacho Huancabamba Huaral (country) Jayanca Lima (city) Lima (country) Mollendo Pacasmayo Pisco Salaverry Trujillo	10 2 5 7 15 1 6	5 0 0 5 8 1 2 1 0

The reports contained in the following tables must not be considered as complete or final as regards sither the lists of countries included or the figures for the particular countries for which reports are given.

# Reports Received During Week Ended April 23, 1926 1

#### CHOLERA

Place	Date	Cases	Deaths	Remarks
India	Jan. 31-Feb. 6 Feb. 21-Mar. 6 Feb. 7-13 Jan. 23-30 Jan. 31-Feb. 6 Jan. 3-9 Dec. 20-31 Dec. 6-12 Feb. 7-20 Jan. 3-16	2,952 3 4 1 1 2 35 1 11 76	1,733 1 4 1 2 2 30 3 9 26	

#### PLAGUE

Azores: St. Michaels	Feb. 7-13	1		In outskirts of city of Ponta Delgada.
Nanking	Feb. 14-Mar. 6			Present.
Ecuador:	2 00111 212011 02222			2100000
Guayquil	Mar. 1-15	9	4	Rats destroyed, 10,135; found in-
Hawaii Territory				fected, 71. Feb. 2, 1926: One plague-infected
nawan remitory				rodent found near Hamakua
:		1		Mill Co.
Kakuihaele	Mar. 19		1	
India	Jan. 31-Feb. 6	4,603	3, 121	Tom 16 91 10004 Clases 170.
Madagascar Province—				Jan. 16-31, 1926; Cases, 173; deaths, 152.
Moramanga	Jan. 16-31	20	19	deavis, 102.
Tananarive	do	147	127	
Town-				•
Fort Dauphin	qo		1	1
Tananarive Mauritius Island:	do	5	5	
Moka	Dec. 1-31	2	2	
Port Lewis	do	9	8	•
Peru	Feb. 1-28.	94	44	
Union of South Africa:				
Winburg District	Feb. 21-27	1		
		į.	1	

#### SMALLPOX

		<del>,</del>		
Canada; Alberta				Mar. 28-Apr. 3, 1926; One case.
Manitoba				Mar. 28-Apr. 3, 1926; Cases. 4.
Winnipeg	Mar. 28-Apr. 3	3		
Ontario				Mar. 28-Apr. 3, 1926: Cases, 6.
SaskatchewanChina:				Mar. 28-Apr. 3, 1926: One case.
Amoy	Feb. 28-Mar. 6		2	
Changsha	Feb. 21-27			Present.
Chungking	do			Do.
Foochow				Do.
	Feb. 28-Mar. 6 Feb. 14-27	1	1 1	
Liao-yang	Mar. 7-13	1 1		
Manchuria—		1 1		
Dairen	Feb. 15-Mar. 7	20	9	,
Harpin	Feb. 26-Mar. 4			
Shanghai Swatow	Feb. 28-Mar. 13 Feb. 21-Mar. 13	5	28	Cases, foreign only.
Egypt:	Feb. 21-1018F. 131.			Prevalent.
Alexandria	Feb. 19-Mar. 4	12	5	
Port Said	Feb. 26-Mar. 4	1		

¹ From medical officers of the Public Health Service, American consuls, and other sources.

### Reports Received During Week Ended April 23, 1926—Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Great Britain: England and Wales Hull Newcastle-on-Tyne	do	178 1 3		
Saloniki India Indo-China:	Jan. 31-Feb. 6	-	1 1, 422	
Saigon  Jamaica  Kingston	Mar. 1-7 Mar. 21-27do	2 59	1	Including 100 square kilometers of surrounding territory.  Reported as alastrum.  Do.
Japan Yokohama Mexico.	Mar. 8-14	17	1	20.
Guadalajara Mexico City Vera Cruz	Mar 21-27	2	1	Including municipalities in Federal District.
Portugal: Lisbon	Feb. 14-Mar. 27	42		
Medan Trinidad	Feb. 21-27 Feb 28-Mar. 20	1 5		Reported as alastrim.
	TYPHUS	FEVE	R	
Canary Islands: Santa Cruz de Teneriffe China:				
Antung Egypt: Alexandria		1		
Port Said Mexico: Mexico City		5		Including municipalities in Fed- eral District.
Palestine: Tel-AvivTiberias	Mar. 9-15do	1 2		
Rumania: Constantza Union of South Africa: Cape Province	1	Į.		Outbreaks.
Natal— Durban Orange Free State Transyaul	do	1		Do. Do.
* 19470 1 PAY				

### Reports Received from December 26, 1925, to April 16, 1926 1

#### CHOLERA

Place	Date	Cases	Deaths	Remarks
Chosen	October - November, 1925. Dec. 1-31	12 880	5 712	Oct. 18, 1925, to Jan. 2, 1928;
Calcutta	Nov. 1–28 Dec. 6–26 Dec. 27–Jan. 16. Jan. 24–Mar. 6. Nov. 15–Jan. 2. Jan. 3–Mar. 6. Nov. 8–Dec. 5. Jan. 24–Feb. 13.	207 174 93 4 5	89 54 41 179 70 60 4	Cases, 21,316; deaths, 12,371. Jan. 3-30, 1926; Cases, 14,906; deaths, 8,327.

I From medical officers of the Public Health Service, American consuls, and other sources.

Place

# CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

## Reports Received from December 26, 1925, to April 16, 1926—Continued

CHOLERA-Continued

Date

Cases Deaths

Remarks

r ace	Date	Cases	Deanna	Tooling wa
Indo-China	Sept. 1-30	2 5 2 2 409 113 3 92 2000 6 18 4 6 1 113 127 77 5 114 23 7 4 108 270 187 9	2 3 2 2 3 2 2 5 1 1 3 6 4 8 8 8 6 6 1 4 4 2 2 1 1 8 5 2 5 2 1 1 1 1 1 2 6 8 1 4 9 1 2 5	September, 1925: Cases, 9; doaths, 5. September, 1924: Cases, 7; deaths, 4. (European cases, 2.)  Including 100 square kilometers of surrounding country.  Arrived at Bangkok, Siam; Cases in coolie passengers.
				cases in coone passengers.
	PLA	GUE		
		1		
Argentina. Buenos Aires Azores:	Jan 24-30	<u>ī</u>		Jan. 24-30, 1926: 6 cases, occur- ring in interior Provinces of Salta and Santa Fe.
St. Michaels Brazil [*] Bahia	Jan. 17-30 Nov. 8-Dec. 28	4 3	2	
Do Santos Sao Paulo British East Africa:	Dec. 27-Jan. 30 Dec. 8-21 Reported Mar. 25.	4	2 2 1	
Kenya— Kisumu Do Uganda Protectorate Canary Islands:	Nov. 22-Dec 5 Jan. 31-Feb. 27 Sept. 1-Dec. 31	1 4 468	2 3 426	
La Laguna Las Palmas Do Santa Cruz de Teneriffe.	Dec. 24 do  Jan. 7  Dec. 18–27  Dec. 28–Feb. 1	3 1 1 3	2	
Colebes:		3		-
Makassar Ceylon:	Dec. 29-Feb. 2	12	12	Netherlands East Indies.
Colombo Do Do	Nov. 15-Dec. 5 Dec. 27-Jan. 16 Jan. 24-Feb. 27	3 2 4	3 2 3	1 plague rodent.  Feb. 14-20, 1926: Two plague rodents.
China: Nanking Ecuador: Eloy Alfaro Guayaquil Do Recreo (country estate)	Nov. 15-Jan. 23 Jan. 1-15 Nov. 1-Dec. 31 Jan. 1-31 do	I 31 34 1	12 14	Prevalent.  Rats taken, Nov. 1-Dec. 31, 1925, 49,370; rats found infected, 281. Rats taken, Jan. 1-Feb. 28, 1926, 44,258; rats found infected, 406.

# Reports Received from December 26, 1925, to April 16, 1926—Continued PLAGUE—Continued

Place	Date	Cases	Deaths	Remarks
Egypt				Jan. 1-Dec. 9, 1925: Cases, 138.
Alexandria	Mar. 10.	1		2011 2 2000 0, 20400 0, 2000
Beni Suef	Nov. 18.	1	1	
Fayoum Province	Dec. 3-9 Mar. 9	1	1	
Gharbia Province	Mar. 9	1	1	
Minia Province	Mar 4	1	1	
Greece: Athens	Nov. 1-30	18	4	Including Piræus.
Do	Jan. 1-31	14	3	mudding I likus.
Herakleion	Feb. 4	1		On island of Crete.
Patras	Nov 13-Dec. 12	4	1	
Hawaii Territory:	35 10	2		
Honakaa. Paauilo	Mar. 16	2		I death suspected plague.
ramino				Jan. 29, 1926: Plague-infected rat found in vicinity Oct. 18, 1925. to Jan. 2, 1926: Cases, 15,135; deaths, 10,677. Jan. 3-30, 1926: Cases, 10,468; deaths. 7,339.
India				Oct. 18, 1925, to Jan. 2, 1926;
Bombay	Dec. 6-12	1	1	Cases, 15,135; deaths, 10,677.
Do	Jan. 3-Feb 20		8	Jan. 3-30, 1926: Cases, 10,468;
Calcutta Karachi	Dec. 6-12 Nov. 1-Dec. 19		1	deaths. 7,339.
Karachi	Nov. 1-Dec. 19	4	3	
Do	Feb. 21-Mar. 6	_3	3	
Madias Presidency	Oct. 25-Nov. 7	75	41	
Do	Nov. 15-21	35	22	
Do	Ton 2 0	108	64 83	
Do	Ian 17-Feb 13	135 579	348	
Rangoon	Nov. 15-21 Dec. 20-26 Jan 3-9 Jan. 17-Feb. 13 Oct. 25-Dec. 26	23	15	
Do	Dec. 27-Feb. 27	57	49	
Indo-China			1	September, October, 1925: Cases,
Province—				25; deaths, 23.
Cambodia	Sept. 1-30	11	11	
Cochin China	September-Octo-	14	12	
Tunas	ber.	1	ļ	
Iraq: Bagdad	Dec. 13-Jan. 2	7	3	
Do	Jan. 10-Feb. 20	43	26	
Java:	1			
Batavia	Oct. 24-Nov. 6	94	89	Province.
Do	Nov. 14-Jan. 1	315	297	
Do Cheribon	Nov. 14-Jan. 1 Jan. 2-Feb. 19	369	357	
Cheribon	Sept. 27-Oct. 17		166	
Do	Nov. 15-Dec. 26		198	į .
Do Djokjakarta	Jan. 3-Feb. 6 Oct. 20-Nov. 9		•	Epidemic in.1 locality.
Vadiri	Dec 7			Do.
Kediri Koeningan	Dec. 7. Dec. 27-Jan. 16. Sept. 27-Oct. 17. Nov. 8-Dec. 26.		114	1 20.
Pekalongan	Sept. 27-Oct. 17		42	Į.
Do.	Nov. 8- Dec. 26		172	
Rembang.				Do.
Surabaya Do	Oct. 11-Dec. 26 Dec. 27-Jan. 9 Jan. 17-Feb. 13	59	59	
Do	Dec. 27-Jan. 9	16	16	
Do	Jan. 17-Feb. 13	12	12	1
Tegal	Sept. 27-Oct. 17 Nov. 8-Dec. 26	6	6 31	1
Do Madagascar	1vov. 6-Dec. 20		31	Nov. 1-Dec. 31. 1925: Cases.
Province-			1	Nov. 1-Dec. 31, 1925: Cases, 632; deaths, 593. Jan. 1-15, 1926: Cases, 161; deaths, 151. Bubonte, pneumonic, and sep-
Ambositra	Dec. 16-31	9	7	1926: Cases, 161: deaths, 151.
Dα	Jan. 1-15	2	2	Bubonfe, pneumonic, and sep-
Itasy	Sept. 16-Oct. 31 Nov. 16-Dec. 16	20	20	ticemic.
Do	Nov. 16-Dec. 16	34	- 34	
νο	1 Jan. 1-15	29	29	i
Moramanga	Sept. 16-Dec. 31	49	48	[
Do Tananarive	Jan. 1-15	15	15	1
Tananarive	Sept. 16-Nov. 30 Dec. 16-31	368	341	f
Do	Tan 1 15	152 111	143	į
Town—	Jan. 1-15	1111	100	<u> </u>
Fort Dauphin	Sept. 16-Nov. 30	6	3	
Tamatave (port)	Sept. 16-30	3	2	
	1 Oct. 10-MOV. 30	9	9	,
Do		. 2	2	ł
Do	.] Sept. 16-30			
DoTananarive	Sept. 16-30 Nov. 1-30	.1 11	11	i .
Tananarive Do	l Jan. 1–15	11	4	
Do	Jan. 1-15 Sept. 20-Dec. 26	11 4 21	18	
Tananarive Do	Sept. 20-Dec. 26 Oct. 1-Nov. 30	11 4 21 3	4	

## Reports Received from December 26, 1925, to April 16. 1926-Continued

### PLAGUE-Continued

Phea	Date	Cases	Deaths	Remarks
Persia: Teheran Peru	Oct 21-Nov. 21		12	January, 1926: Cases, 196; deaths,
Huacho Lima	Jan. 26 Jan. 1-31	15 20		67. Reported in 26 localities. Port 60 miles north of Callao. In hospital. Some cases in Province.
Mollendo	do			12 or 15 cases reported unoffi- cially.
Russia Do. Senegul	May-June July-October September-Octo-	67 166 45	25	
Siam Bangkok Do. Do.	her. Aug. 23-Dec. 26 Nov. 15-28 Jan. 3-30 Feb. 7-13	65 3 38	53 3 33 4	
Straits Settlements: Singapore Do	Nov. 1-Dec. 5 Jan. 3-9	8 2	8 2	
Beirut Do Union of South Africa:	Nov. 11-20 Jan. 21-31	1		
Cape Province—  Kimbeley district——  Middleburg district——  Steynsburg district——  Orange Free State——	Dec. 13-19 Dec. 6-12 Nov. 15-21	1 1 1		European. Native. On farm.
Boshof district Bothaville district	Nov. 29-Dec. 5 Dec. 6-12	1	1	In native. Native. On farm.
On vessel: Steamship Cid				Jan. 29, 1926. At Buenaventura, Colombia. Rat was killed while jumping ashore from vessel.

### SMALLPOX

	·	,	·	
Algeria:				
Algiers	Nov. 21-Dec. 31	177		
Do	Jan. 1-10	64		
, Do	Jan. 21-Mar. 10	64		
Arabia:				
Aden	Nov. 29-Dec. 5	1		Imported
, Do	Jan. 10-Mar. 6	10	1	
Argentina:	~	1		
Rosario	October		1	
Australia:		ł	1	
Queensland—		1 -		
Brisbane	Dec. 9-15	1		
Bahamas	Feb. 23:	}		In Nassau district. Stated t
m		1		have been imported.
Brazil:		i .		
Manaos	Dec. 1-31		12	
Do	Jan. 31-Feb. 20		6	
Para	Jan. 10-Mar. 6	28	6	ł .
Rio de Janeiro	Nov. 1-28	134	72	1
Do	Dec. 6-26	65	26	
Do	Dec. 27-Feb. 20	195	131	
British East Africa:		1	1	
Kenya—	********			ł
Mombasa	Nov. 15-Dec. 19	14	6	
Do	Dec. 27-Jan. 2	1		From mainland.
Uganda Protectorate	Sept. 1-Oct. 31	8	4	
British South Africa:	T F 41	1 .	1	İ
Northern Rhodesia	Jan 5-11	. 2		-
Southern Rhodesia	Nov. 13-Dec. 23	.] 3	1	.i

# Reports Received from December 26, 1925, to April 16, 1926—Continued SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
Canada				Sept. 13-Jan. 2: In 7 Provinces, 186 cases. Jan 3-Feb. 27, 1926: Cases. 277
Alberta				Cases, 277.  Jan. 3-Mar 27, 1926: Cases, 54.  From Drumbeller Vignity of
Calgary	Dec. 13-19	1		From Drumheller, vicinity of
Dutich Columbia				Calgary.
VancouverVictoria	Jan 4-Mar. 27	2		
Victoria	Mai. 21-27	2		T 037
Manitoba	10.10			Jan 3-Mar. 27, 1926 Cases, 40.
Winnipeg		2		
Do New Brunswick—		12		
Northumberland	Dag 6-13	1		
Ontario	1000. 0-10			Dan 1-31 1005 Cosas 39 Tan
Ontario				Dec. 1-31, 1925. Cases, 32. Jan. 2-Mar. 27, 1926. Cases, 198.
Admaston	Jan. 1-Feb 1	16		Township.
Alice and Fraser King Wilmot	Feb 1-28	6		Do.
King	do	7		Do.
Wilmot	do	6		Do.
Belleville	do	4		20.
Belleville Kingston	Mar. 8-14	î		
Kitchener	do .	26		
Kitchener North Bay Ottawa	Feb 14-Mar 14			
Ottowa	Dec 6-12	2		
Do	Jan 3-Feh 6	2		
Sarnia	Mar. 14-20	ĩ		
Toronto	Dec 27-Jan 2	ī		
North Bay Ottawa Do Sarnia Toronto Do Trenton	Jan. 3-Mar. 20.	26		
Trenton	do	15		
3askatchewan				Jan. 3-Mar. 27, 1926; Cases, 72,
Moose Jaw	ldo	2		,
Regina	Jan. 24-Mar. 13	3		
Saskatoon	Feb. 14-20	1		
Ceylon:			1	
Colombo	Dec. 6-12	1		Port case.
Do	Jan 3-Feb 6	5		
Chile:	7			
Punta Arenas	Dec. 13-28		8	
Do	Dec. 27-Jan. 2		4	
China:	Oct 95 Dog 10		1	
Amoy	Oct 25-Dec. 19		9	
Antung	Jan. 10-Feb. 13 Dec. 7-20	0	9	
Chungking	Nov 15-Rob 20	-		Present.
Foochow	Nov. 15-Feb. 20 Nov. 1-Feb. 13 Nov. 14-Dec. 26			Do.
Foochow Hankow	Nov. 14-Dec. 26	4		20.
Do	Jan. 10-Feb. 20	2		
Hongkong	Nov. 22-Dec. 26	4		
Do	Jan. 3-Feb. 13	8	3	
Manchuria—			_	
An-shan	Dec. 6-12	1		
Do	Jan. 10-Feb. 13	6		South Manchurian Railway.
Changchun	Jan. 10-Feb. 27	20		Do.
Dairen	Oct. 19-Dec. 27	73	15	
Do	Dec. 28-Feb. 14	57	15	_
Fushun	Jan. 17-23	1		Do.
Harbin	Jan. 1-Feb. 18	2		<b>.</b>
Kai-yuan	Jan. 10-30	4		Do.
Kungchuling	Jan 31-Feb. 20 Jan. 17-23	2		Do.
Lio-yang Mukden	Oct. 24-Nov. 15	li		Do.
Do	Jan. 24-Feb. 27	1 4		Do.
Tieh-ling		2		D0.
Nanking	Noy. 21-Dec. 26			Present.
Do	Dec. 27-Feb. 13			Do.
Shanghai	Oct. 25-Jan. 2	37	36	,
Do	Jan. 3-Feb. 27	51	103	Cases, foreign only
Swatow	Nov. 22-Feb. 20			Prevalent.
Tientsin	Nov. 1-Dec. 19			
Do	Jan. 23-30	, ,		
Chosen:		1	1	
Seishin	Jan. 1-31	.i 5	2	l

# Reports Received from December 26, 1925, to April 16, 1926—Continued

### SMALLPOX-('ontinued

Place	Date	Cases	Deaths	Remarks
Egypt,				
Alevandria	Dec. 3-31	5	2	
Do		2	1	
. Do	Jan. 29-Feb. 18	10	1	Marramahan 100%, Classer 9
Esthonia				November, 1925: Cases, 3. September - December, 1925:
Havre	Jan. 25-31		9	Cases, 253.
Paris	Mar. 1-10	5	ű	Cuber, noo.
Gold Coast	September, De-	58	5	
	cember.			
Great Britain				
England and Wales				Nov. 15-Dec 26, 1925: Cases, 790. Dec. 27-Mar. 20,1926 Cases, 3,303.
Hull		29 8		Dec. 27-Mar. 20,1920 Cases, 3,30%
Do Leeds		4		
London		*	1	
Newcastle-on-Tyne		6	1	
Do		32	1	
Nottingham		9	1	•
Do	Dec. 27-Feb. 27	3		
Sheffield	Nov. 22-Dec. 12	7		
Do	Dec. 20-26	3		
Do South Shields	Dec. 27-Mar. 20	18		m
South Shields	Feb. 9			Reported present in severe form
Greece				Oct. 1-31, 1925 Cases, 16.
Athens	Nov. 1-Dec. 31	18 50	1 3	
DoKalamata	Mon 1 7	1	0	From Patras
Saloniki	Jan. 1—Feb. 28 Mar. 1-7 Feb. 16-22	-	i	From Latius
India	100. 10-22		1	Oct. 18-Dec 26, 1925; Cases,
Bombay		26	20	Oct. 18-Dec 26, 1925: Cases, 19,472; deaths, 4,440. Dec. 27,
Do	Dec. 27-Feb. 20	113	58	1925-Jan. 30, 1926; Cases, 29,832;
Calcutta	Nov. 29-Dec. 26	48	25	deaths, 10,069.
Do	Dec. 27-Feb. 27	370	225	
Karachi	Nov 1-21	23		
Do	. Nov. 29-Dec. 5	4	2	
Do	Dec. 13-19	3 79		
Madres	Dec. 29-Mar. 6 Jan. 24-Mar. 6		24	,
Rangoon	Oct 25-Nov 28	3		
Do	Dec. 6-26	4	i	
Do	Dec 27-Jan. 16	13	ī	
Do	Jan. 24-30	G		·
Do	. Jan. 31–Feb. 27	56	9	
Indo-China				September-October, 1925: Cases,
Province—	0-1-1-0-1-0-1			204; deaths, 62.
AnnamCambodia	Sept. 1-Oct. 31	90	23 30	
Chapter Chapt		72 61	30	
Cochin China Saigon	Thec 21-27	2	1	
Do	Jan. 1-Feb. 7	ā	1	Including 100 kilometers of sur-
Tonkin				rounding country.
Iraq:		1		
Bagdad		. 19	15	Sept. 6-Oct. 17, 1925: Cases, 81;
_ Do	Dec. 27-Feb. 20	15	7	denths, 40.
Basra	Dec. 27-Feb. 13	. 40	32	1
Timber 11	1		1	Amer 0 1005; For 0 1006; Clause
Italy Catania	Tab. 15.00		1	Aug. 2, 1925: Jan. 2, 1926: Cases, 52. Jan 3-16, 1926. Cases, 12
Genoa	Feb. 15-28 Jan. 21-Feb. 10	4		02. 04H 0-10, 1020. Cases, 12
Rome	Oct. 12-25	i		1
Jamalca			_	Nov. 29-Dec. 26, 1925; Cases. 95.
				Nov. 28-Dec. 26, 1925: Cases, 95. Dec. 27, 1925-Feb. 27, 1926. Cases, 260. Reported as alas-
Winner	i	1	. 1	trim.
Kingston.	1 m m ==			Reported as alastrim.
Do	Nov. 29-Dec. 26			
Tonon	Nov. 29-Dec. 26 Dec. 27-Jan. 30			Do.
Japan.	Dec. 27-Jan. 30	48		
Japan. Nagasaki Talwan	Dec. 27-Jan. 30 Feb. 15-21	48		
Japan Nagasaki Taiwan Yokahama	Feb. 15-21 Nov. 11-Dec. 10_	48 1 3		

# Reports Received from December 26, 1925, to April 16, 1926—Continued

### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Java:				
Batavia	Oct. 24-30	1		
Do	Nov. 14-Dec. 25 Nov. 29-Dec. 5	7		
Buitenvorg Cheribon	Nov. 29-Dec. 5	1		
Cheribon	Nov. 8-Dec. 12	2		
Do	Jan. 31-Feb. 6		1	
Kraksaan	Oct. 11-17	11		
Malang	Oct. 11-Jan. 16	13		
North Bantam	Oct. 4-17. Oct. 25-31.	4		
Pekalongan	Oct. 25-31	1		
Pontianak.	Jan. 31-Feb. 6		1	
Probolingo	Oct. 11-17	1		
South Bantam	Oct 11-17 Oct. 11-Dec 26 Dec. 27-Feb. 13	1		
Surabaya	Oct. 11-Dec 26	633	104	
Do	Dec. 27-Feb. 13	131	40	
Tegal	Oct. 4-10	9	1	
Latvia	-5000-00-00-00-00-00-00-00-00-00-00-00-0			December, 1925: Cases, 3.
Malta	Nov. 1-Dec 21	21	3	
Do	Jan. 1-Feb. 28	20		
Mexico.	The 10 Tee 0			July-September, 1925: Deaths,
Aguascalientes	Dec. 13-Jan. 2	4	3 7	1,157.
Do	Jan. 3-30			
Do	Feb. 14-Mar. 27		12	
Durango	Dec. 1-31		1	
Do	Jan. 1-31. Dec. 27-Mar. 29		.2	
Guadalajara	Dec. 21-Mar. 29	;-	15	
Mexico City	Nov. 28-Dec 5	1		Including municipalities in Fed-
` D-	Tam 0 35 10			eral District.
Do	Jan. 3-Mar. 13 Jan. 17-Mar. 20	5		Do.
San Luis Potosi	Jan. 17-Mar. 20		53	
Tampico	Dec. 21-Jan. 2		1	
Do	Jan. 2-Mar. 10	8		
Torrech	Nov 1-Dec. 31 Jan. 1-Feb. 28		51	
Do Netherlands	Jan. 1-Feb. 28		54	
The Hague	Jan. 30-Mar. 6	2	1	
	Jan. 50-19141. 0	-	1	Assense Manamban 1005. Con-
Nigeria				August-November, 1925: Cases,
Palestine:				347; deaths, 6.
Hebron.	Jan. 26-Feb. 1	2		
Tiberias	Feb. 9-15	ī		
Persia:	10.0			
Teheran	July 23-Dec. 22		775	
Peru:				
Arequipa	Oct. 1-Dec. 31		2	
Poland				Nov. 1-28, 1925: Cases, 9.
Portugal:	_			,
Lisbon	Oct. 4-31 Nov. 16-Dec. 27	124		
Do	Nov. 16-Dec. 27		60	
Do	Nov. 14-Dec. 26	187		
Do	Dec. 27-Feb. 28	87	29	
Oporto	Nov. 22-Dec. 19	2	3	
Do	Dec. 27-Mar. 6	3	1	
Rumania	August-October	3		35
Russia				May-June, 1925: Cases, 2,333.
Do				July 1-Oct. 31, 1926; Cases, 1,563.
Siam.	75 00 07			July 12-Sept. 5, 1925: Cases, 21;
Bangkok	Dec. 20-25	3	_1	deaths, 6.
Do	Dec. 26-Feb. 13	51	17	
Sierra Leone. Konno district		1		
	Dec 16 91			
	Dec. 16-31	5		
Spain:		5	10	
Spain: Madrid	Year 1925	5	18	
Spain: Madrid Do	Year 1925 Jan. 1–31		1	,
Spain: Madrid Do Malaga	Year 1925 Jan. 1–31 Nov. 29–Dec. 5		1 2	,
Spain:  Madrid  Do  Malaga  Do	Year 1925		1	
Spain:  Madrid.  Do	Year 1925 Jan. 1–31 Nov. 29–Dec. 5 Dec. 27–Jan 2 Dec. 20–26	1	1 2	,
Spain:         Madrid.           Do.         Malaga.           Do.         Valencia           Do.         Do.	Year 1925 Jan. 1-31 Nov. 29-Dec. 5 Dec. 27-Jan 2 Dec. 20-26 Dec. 27-Jan. 2	1	1 2	
Spain:   Madrid	Year 1925. Jun. 1-31 Nov. 29-Dec. 5. Dec. 27-Jan 2 Dec. 20-26 Dec. 27-Jan. 2 Jan. 10-Feb. 6	1 1 9	1 2	,
Spain:         Madrid.           Do.	Year 1925 Jan. 1-31 Nov. 29-Dec. 5 Dec. 27-Jan 2 Dec. 20-26 Dec. 27-Jan. 2	1	1 2	
Spain:   Madrid	Year 1925 Jun. 1-31 Nov. 29-Dec. 5. Dec. 27-Jan 2 Dec. 20-23 Dec. 27-Jan 2 Jan. 10-Feb. 6. Feb. 14-Mar. 12	1 1 9 7	1 2	
Spain:  Madrid.  Do.  Malaga.  Do.  Valencia  Do.  Do.  Do.  Straits Settlements: Singapore.	Year 1925	1 1 9 7	1 2 1	
Spain:   Madrid	Year 1925 Jun. 1-31 Nov. 29-Dec. 5. Dec. 27-Jan 2 Dec. 20-23 Dec. 27-Jan 2 Jan. 10-Feb. 6. Feb. 14-Mar. 12	1 1 9 7	1 2	June 28-Nov. 21, 1925; Casse 82;
Spain:  Madrid	Year 1925	1 1 9 7	1 2 1	June 28-Nov. 21, 1925: Cases, 62;
Spain:   Madrid	Year 1925	1 1 9 7	1 2 1	June 28-Nov. 21, 1925: Cases, <b>62</b> ; Dec. 27, 1925-Jan. 30, 1926: Cases, 37.

# Reports Received from December 26, 1925, to April 16, 1926—Continued SMALLPOX—Continued

Distribution Continued					
Place	Date	Cases	Deaths	Remarks	
Trinidad (West Indies): Port of Spain Tunisia: Tunis Do. Do. Union of South Africa: ('ape Province: Orange Free State— Kuruman district. Ladybrand district. Transvaal— Belfast district. Germiston district. Pretoria district. On vessel	Dec. 11-81 Jan. 1-Feb. 29 Jan. 17-23 Jan. 10-16 Dec. 27-Jan. 2 Jan. 2-9 Jac. 2-9 Jec. 6-12	6	1	Outbreaks.  Do. Do. Do. Outbreaks. In native compound. Mexican steamer Montezuma, at Port of Ensemada, Mexico.	

#### TYPHUS FEVER

1.7		İ	1	
Algeria:	N - 1 D - 00	2		
Algiers	Nov. 1-Dec. 20	9		
Do	Jan. 1-Feb. 28	9		
Argentina;	O-1 10 D-0 01	2		
Resario	Oct. 13-Dec. 31	50	3	
Bulgaria	Sept 1-Dec. 31		3	
Sofia Do	Dec. 25-31	1		
	Jan. 8-14	2		
Chile				Dec. 15-31, 1925; Cases, 46.
Achao	Dec. 15-31	1		
Bulnes	do	1		
Chillan	do	21		
Concepcion	do	6		
lan mac	' do .	1		
Los Angeles Pence Sau Carlos	do	5		
Penno	do	2		
San Carlos	do	1		
Talca	do	ī		
Valparaiso.	do	4		
Do	Nov. 29-Jan. 2	_	2	
China:	1101. 25 gan. 2		-	
Antung.	Nov. 29-Dec. 27.	5	1	
	Jan. 4-10	ľ		
Do	Dec. 27-Jan. 2	i		
Hongkong.	1700. 21-3.111. 2			
Manchuria -	Day IN The L	3	1	
Harbin	Der. 17-Feb. 4			
Czechoslovakia	October-December	145	1	
Egypt.				
Alexandria	Jan. 8-14	1		
Cairo	Nov. 5-Dec. 16	3	2	
Port Said	Nov. 19-25	1		
Esthonia.	Jan. 1-31	6		
Finland		1		October, 1925: 1 cuse.
France	July-October	4		
Germany	Oct. 25-31	1		
Greece				December, 1925: Cases, 12,
Athens	Nov. 1-30	11	2	
Do	Jan. 1-Feb. 28	38	7	
Saloniki	Dec. 29-Jan. 4	ĭ	1	
Do	Feb. 2-8	l î		
Hungary	Fem 2-0	1 -		November-December, 1925:
Trunger y				Cases, 16.
Ireland:		1	1	
Cork County—	}	i	1	
Cork	Dec. 26-Jan. 1	0	1	
		2 5		
Do	Jan. 2-8			
Dumanway	Nov. 14	1		
Galway County	Oct. 17	1		
Kerry County-		1 _	1	l
Listowel.	Mar. 7-13	1		Rural district.
Wexford County-		ł	i	_
Gorey	do	] 1		Do.
Latvia	October-December	4		
Lithuania				September-October, 1925: Cases,
	l	1	1	9; deaths, 1.
•				

# · Reports Received from December 26, 1925, to April 16, 1926—Continued

### TYPHUS FEVER-Continued

Guadalajara Do	Dec. 14-19			
Guadalajara Do	Dec. 14-19		1	July-September, 1925: Deaths,
Guadalajara Do		1		90.
GuadalajaraDo	Dec. 1-31		1	
GuadalajaraDo	Jan. 1-31		i	
Do	Dec. 8-28.		$\hat{2}$	
	Dec. 29-Jan. 4		1 .	
Mexico City	Nov. 22-Dec. 26	145		Including nunicipalities in Fed
2,10,1100 0 103 1111111111111111111111111				eral District.
Do	Dec. 27-Mar. 6	79		Do.
San Laris Polces	Fab it is		1 1	
Tampico	Dec. 21-Jon 10	1	î	
Torreon	November, 1925		ī	
			i i	
Morocco	August-December	93		
Norway.				November-December, 1925:
		-		Cares, 2.
Palestine:				•
Gaza Jaffa	Dec. 18	1		
Jaffa	Dec. 17	1		
D0	Feb. 23-Mar. 1	1		
NazarethSafad	Nov. 3-9	ī		
Safad	Nov 24-30	1		
Tel-Aviv	do	1		
Peril:				
Arequipa Poland	October-December		3	
Poland	Oct. 11-Nov. 18	215	26	
Do	Nov 29-Jan. 2	247		
Do	Jan. 3-16	190		
Rumania Constantza				July-October, 1925: Cases, 181;
Constantza	Feb. 1-10	1		clant he 99
Russia				May-June, 1925 Cases, 10,680.
Do				July-October, 1925. Cases, 6,035.
Maralz or				, , , , , , , , , , , , , , , , , , , ,
Constantinc ple	Jan. 24-30	3		
Do	Feb. 9-22	5	3	From unofficial sources (press).
Union of South Africa				October, 1925 Cases, 88; deaths,
				From unofficial sources (press). October, 1925: Cases, Es; deaths, 7 (colored). Cases, European, 7. December, 1925: Cases, 78; deaths, 9. Colored Cases, 73; deaths, 9. January, 1926: Cases, 94; deaths, 18. Euro- pean cases, 5.
		1		pean cases, 5.
Cupe Province	Oct. 1-31	63	1 5	Colored.
Do	Nov. 8-Dec. 31	47	8	-
Do	Jan. 1-31	74	14	Do.
Granamstown	Jan. 24-30	2		73
Middlenurg district	Dec. 6-12	1		European. On farm.
Natai	Oct. 1-Dec. a	1 9		Colored
Cupe Province Do. Do. Grahamstown Middlehurg district Natal Do. Do. Do. Do. Do. Do.	Jun. 1-01	3	1	Colored.
Durban Orange Free State.	Jan. 3-Feb 27. Nov. 20-Dec. 5	23	li-	
Do	Dog 1 21	8		•
Do	Tom 1 21	6	1 3	Do.
Bethulia district	Day 6 19			Outbreaks.
Both wills district	40	i		Native. On farm.
Bothaville district Transvaal	Oct 1-21	î	<u>-</u>	Tractive. Officialities
Do	Dog 1-91	18		
Bloemhof district	Dec. 1-31 Dec. 27-Jan. 2	15		Outbreaks. On farm,
Johannesburg	Mar. 1-6	2		
Yugoslavia				Jan 1-Feb. 21, 1926: Cases, 81; deaths, 12.
	YELLOV	v feve	R	
Gold Coast	Sept. 1-Dec. 31	4	3	
Nigeria	August-October		2	
Senegal	November, 1925		2	
		1	l -	

# TREASURY DEPARTMENT

# PUBLIC HEALTH REPORTS

ISSUED WEEKLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

VOLUME 41 :: :: NUMBER 18

APRIL 30 - - - 1926

## = SPECIAL ARTICLES =

Reorganization of the National Health Service of Chile The Intensive Treatment for Hay Fever



WASHINGTON
GOVERNMENT PRINTING OFFICE
1926

### UNITED STATES PUBLIC HEALTH SERVICE

Hugh S. Cumming, Surgeon General

#### DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg Gen. B. J. LLOYD, Chief of Division

The Public Health Reports are issued weekly by the United States Public Health Service through its Division of Sanitary Reports and Statistics, pursuant to acts of Congress approved February 15, 1893, and August 14, 1912.

They contain: (1) Current information of the prevalence and geographic distribution of preventable diseases in the United States in so far as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other communicable diseases throughout the world. (2) Articles relating to the cause, prevention, or control of diesase. (3) Other pertinent information regarding sanitation and the conservation of the public health.

The Public Health Reports are intended primarily for distribution to health officers, members of boards or departments of health, and those directly or indirectly engaged in or connected with public health or sanitary work. Articles of general or special interest are issued as reprints from the Public Health Reports or as supplements, and in these forms are available for general distribution to those desiring them.

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# PUBLIC HEALTH REPORTS

VOL. 41 APRIL 30, 1926 No. 18

#### THE NATIONAL HEALTH SERVICE OF CHILE

Résumé of the Work During the Last Six Months of the Year 1925

By Dr. LUCAS STERRA, Director General of Health of Chile

Dr. John D. Long, technical adviser in public health to the Ministry of Hygiene, arrived from the United States and began work July 13, 1925. The director general, the legal adviser, the secretary, and other officers of the health service at once associated themselves with Doctor Long with a view to making a complete study of the existing organization and the laws and regulations under which it operated as a preliminary step to its complete reorganization and modernization.

The first matter of importance undertaken was to bring about the inclusion in the new constitution, which was at that time being drafted, of a provision which should guarantee the maintenance of a national health service and provide, at the same time, a constitutional basis upon which the service could operate. To this end, President Alessandri was visited, and, after free discussion of various propositions, the provisions quoted below were included in the new constitution and were adopted without change by the plebiscite on August 30, 1925:

The exercise of the property right is subject to the limitations or rules that the maintenance and progress of the social order may require. And in this sense the law can impose obligations or easements of public utility in favor of the general interests, of the State, of the health of its citizens, and of the public health. (Art. 10, par. 10.)

#### Also:

It is the duty of the State to safeguard the public health and the hygienic well-being of the country. There shall be provided each year a sum of money sufficient to maintain a national service of public health. (Art. 10, par. 14.)

Based upon the authority above quoted, the Sanitary Code of Chile was drafted. In the drafting of the Sanitary Code previous laws and regulations were given full consideration. The experiences of and results obtained in other countries were freely drawn upon. The code was adapted so as to conform to the legal and administrative procedures in use in the Government. Public health was recognized as a profession or specialty, and provision was made for a corps of health officers who should devote the major part of their

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time to their official duties from the effective date of the code, and at the expiration of five years, through deprivation of the right to practice their profession as physicians, should devote their entire time to their official duties.

The salaries of these technical officers were fixed at as reasonably low figure as could be arrived at, taking into consideration the fact that private practice will eventually be prohibited, that full time is to be devoted to official duties, and that within a short time no other source of income will be available to the average health officer.

The basic salary of the health officers was established after careful study of the salaries paid to similar officers in the United States, Cuba, Panama, the Philippine Islands, and those countries of Latin America which have a health service similar to the service provided by the Sanitary Code. That portion of the code which provides for the creation of a corps of technical officers, and provides for these officers reasonable salaries, reasonable promotion, and security of tenure in office, and obligates them to devote their full time to their work, is believed to be of fundamental importance, and is, in fact, the keystone of the arch upon which the whole structure rests.

It has been the experience of all countries, including Chile, that part-time health officers do not give satisfactory service, the inevitable result being that death rates do not come down, and morbidity rates continue as they were.

The draft of the Sanitary Code was completed, and presented to the Minister of Hygiene September 4, 1925. After careful study by the medical society, the faculty of medicine, and by a special committee appointed by the Minister of Hygiene, a unanimous recommendation was made that the code be adopted without material changes.

The code became law October 13, 1925. Immediately after the adoption of the code, the work of organization in accordance with its provisions was begun. Physical examinations were held of all existing officers and employees, and those found physically unfit were recommended for retirement in accordance with the retirement laws. Those found physically fit were carefully studied as to their qualifications and abilities by various commissions appointed by the director of health, and recommended for appointment and designation to the various positions which they now hold. As soon as the appointments recommended were approved by the Government, the officers were assigned to their various stations and duties.

The entire Republic was divided into sanitary zones, 10 in number, the division being subsequently approved by the President of the Republic. A scheme of organization was developed, and a chart was prepared which illustrates and explains the type of organization adopted. The scheme of organization provides for sanitary service in every part of the Republic, through the establishment of boards

of health in such cities as are of sufficient size to maintain such boards; through the provision of municipal sanitary districts in other cities that are so situated as to make it advantageous to combine two or more cities in such districts; and through the subdivision of the sanitary zones into what are known as "sanitary divisions." These divisions are to contain from one to four small municipalities which, under existing conditions, are financially unable to maintain a sanitary service of their own. The communities or towns comprising a sanitary division are required to set aside from 5 to 10 per cent of their gross income, the Government contributing a like amount as soon as the various municipalities have signified their assent to the formation of the division.

Following the activities above outlined, attention was then directed toward the preparation of the regulations necessary for the application of the law.

The first regulations drafted were the maritime and frontier quarantine regulations for the prevention of the introduction of disease from other countries through international commerce. These regulations are based upon and prepared in accordance with the provisions of the Pan American Sanitary Code, an international sanitary treaty prepared and signed by the representatives of 18 of the 21 Republics of the Pan American Union.

The Pan American Sanitary Code to date has been ratified by the following countries, in the order of ratification: The United States, Cuba, Peru, Chile, and Costa Rica. From information recently obtained, several other countries will ratify within a relatively short period. The object of the Pan American Sanitary Code is to bring about an international standardization of sanitary measures in the Western Hemisphere for the purpose of preventing the international spread of disease and, at the same time, to accomplish the eradication of diseases of international importance within those countries where such diseases still exist. The treaty specifically provides that such measures are to be applied for the purpose of obtaining the greatest protection against disease, at the same time eliminating all unnecessary hindrances to international commerce and communications.

The quarantine regulations which have been adopted and are now in effect have been drafted so as to conform strictly to the treaty provisions referred to above and should be productive of the highest degree of protection with a minimum of hindrance to international commerce and communications.

Regulations were also prepared and have been adopted for the control of the importation, distribution, and sale of habit-forming drugs, such as opium and its derivatives, and coca and its derivatives. These regulations were drafted in accordance with the most

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modern ideas and practices and are designed to limit the use of such drugs and their derivatives to medical purposes only, thereby exceeding the provisions of the opium treaty signed in Geneva. The treaty of Geneva limits international traffic in such drugs in general terms only and does not strike at the root of the matter by agreeing to limit production in producing countries to the estimated medicinal needs of the world.

Regulations were drafted to regulate the practice of medicine and other branches of the healing art. These regulations are also based upon the most modern practices in this respect and indirectly establish the principle that the gracticing physician has definite responsibilities to the public by providing that he must report all cases of communicable disease to the health authorities, to the end that adequate measures may be taken to protect the public health. The physician is also made responsible for the projer isolation, in the home, of ratients suffering from communicable disease, and for proper disinfection throughout the course of the illness, for the purpose of preventing the spread of infection to members of the family of the patient or to other families. The regulations also call the attention of the physicians to the need for instructing their clients, in the course of their practice, in matters pertaining to hygiene and public health, and particularly to the necessity for systematic vaccination for the prevention of smallbox.

Regulations have been provided for the control of prostitution which define the practices which shall be considered as contributing to or fomenting prostitution and establish the legal measures for the effective suppression of this commercialized vice and disseminator of disease.

Administrative regulations for the internal conduct of the national health service headquarters have also been prepared and approved, and are now in force. The functions and duties of administrative officers and employees are defined in detail, and administrative procedures and methods have been prescribed in such manner as will materially expedite the work of the various divisions and sections and maintain a relatively high standard of administrative efficiency. A chart of the functions and duties of the various departments and sections of the entire health service has also been prepared in such manner that by simply referring to the chart each officer and employee may readily determine the nature of his functions and duties, and the legal basis upon which such functions and duties rest.

In the sanitary engineering division, there is now in the course of preparation a set of regulations relative to the construction and maintenance of sewage systems for small cities, villages, rural towns, and isolated homes that are so situated as not to have access to a general sewage system. These regulations include an innovation in the form

of a sewage disposal system of such symplicity that it may be constructed by the ordinary individual at a nominal cost. There can be no doubt as to the efficiency of the system just mentioned, as several hundred thousand similar installations have been made with uniformly satisfactory results in other countries having soil conditions almost identical with the soil conditions of Chile. The regulations just referred to are now undergoing a final reading, and within a short time will be ready for approval and promulgation.

A Municipal Sanitary Code is also in the course of being drafted. This sanitary code will be based upon the sanitary ordinances now existing in the principal cities of the Republic, upon the general provisions of the National Sanitary Code, and upon the most modern experiences of cities of other countries with somewhat similar prob-The Municipal Sanitary Code, when completed, will be submitted to the city of Santiago for approval and adoption, and it is expected that it will serve as a model for the remaining cities of the Republic, with such slight modifications as conditions may require. The Municipal Sanitary Code will particularly stress the establishment of standards of food and milk production and will prescribe adequate measures that should permit, eventually, of the provision of a good milk supply from the various standpoints of purity, quality, and freedom from the possibility of conveying infectious diseases. All other factors of sanitary importance will also be treated in the Municipal Sanitary Code, in accordance with the most modern experiences that have given satisfactory results.

Regulations for the physical examination of the school children of the country are also in preparation, and a standard form is being provided, upon which the results of the physical examinations will be noted. As a result of the physical examinations that are to be made, it is fully expected that the great majority of the physical defects of children will be detected in early youth and their parents induced to take the necessary measures to have them corrected through the agency of the family physician, of the hospital, or of the dispensary, as individual cases may require. In addition to the physical examinations of the school children, the regulations will also provide means through which sanitary defects that may have been noted or discovered in school buildings can be corrected.

To sum up, it may be stated that during the last six months of 1925, Chile has been provided with the necessary constitutional guaranties for the maintenance and operation of an adequate national health service; with an organic law which provides the necessary machinery and authority to insure efficient operation; and with an organization and the regulations necessary for the application of much needed health measures.

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In addition, a school for the preparation and education of public health nurses has been provided. Premises have been acquired that are adequate for the purpose, and are now being adapted to the needs of the school. It is hoped that it will be possible to inaugurate the school sometime during the month of March, 1926. A competent woman, with many years of experience in nursing, has been contracted for as the directress of the school. She has had some 20 years of experience in the United States, Mexico, and Panama, and is thoroughly familiar with the language and customs of the people with whom she will have to deal.

During the course of the six months' period covered by this report, the director general of health and the technical adviser have made a number of visits to various parts of the Republic of Chile for the purpose of studying the sanitary conditions, the existing sanitary organizations, their methods of operation, and the prevailing causes of morbidity and mortality. As the result of these visits, the general conclusion is that morbidity and mortality are generally much higher than they should be and that water supplies, as a rule, are insufficient in quantity and of impure quality in that they are frequently subject to contamination from human sources.

Numerous public conferences have been held and addresses have been made. It has been the universal experience that the people as a whole are intensely interested in all that pertains to the improvement of public health. The interest and enthusiasm shown have been without a single exception most marked. This fact has forced the belief that an adequate health organization properly conducted will, without the slightest doubt, produce prompt and satisfactory results in diminishing the existing excessive morbidity and mortality throughout the entire Republic.

As an earnest of what can be accomplished in the reduction of morbidity and mortality, it is sufficient to state that on or about August 1, 1925, a campaign was started for the extermination of the ordinary house fly in the city of Santiago and later extended to the cities of Talca, Concepción, Valparaiso, and other cities. The results obtained have been very satisfactory, and it is definitely known by the health authorities, and generally recognized by the public at large, that flies are much less numerous in the cities named during the present summer season than they have ever been before. In Santiago, the only city where statistics are available hearing

In Santiago, the only city where statistics are available bearing on the result of the fly extermination campaign, which was there carried on with the cooperation of the intendente municipal (mayor) in the cleaning of the streets and the removal of manure and refuse; and on the result of the campaign of public health education that has been consistently conducted through the public press and through conferences and addresses, the infant mortality during the

last six months of 1925 was 45.4 per cent lower than in the same period of 1923, and 31.4 per cent lower than in the last half of 1924. That is to say, 1,417 fewer children died in the last six months of 1925 than in the corresponding period of 1923, and 780 fewer than in the last six months of 1924. The results just cited can not be considered otherwise than highly satisfactory, especially when it is taken into consideration that the results were obtained almost without authority of law, and with very scanty financial resources. It is not too much to hope that similar results of an equally satisfactory nature can eventually be obtained throughout the entire Republic as soon as the organization provided for in the National Sanitary Code is in full operation.

In closing it is desirable to invite attention to the fact that good results in the reduction of the excessive infantile mortality can also be obtained through the adoption of measures which will be briefly described, but which, unfortunately, are beyond the power of the national health service to place in effect. There are a number of hospitals throughout the Republic of Chile. There are available in the city of Santiago approximately 3,500 hospital beds. A careful study of the statistics and numerous conferences with physicians and specialists have shown that the infant mortality in Chile constitutes about one-third of the total mortality. Of the infants who die before reaching the age of one year, approximately 60 per cent die during the first month of life. If the mothers of these children could be admitted to a hospital about 10 days before the baby is born, and kept in hospital for from three to four weeks after the birth of the child, the excessive mortality during the first month of life could undoubtedly be reduced between 80 and 90 per cent. Such reduction would bring about a reduction in the average general mortality of more than one-sixth, thereby reducing the average mortality of the country from 32.8 per 1,000 to approximately 27 per 1,000.

It is not too much to hope that the additional measures that will be taken through the public health nurses and the other agencies of the health service will bring about a still further reduction in the remaining 11 months of the average infant's first year of life, thereby reducing the general mortality to approximately 25 per 1,000, which would represent a total saving to the country of 29,200 lives per year. In the numerous hospitals that exist, very little effort should be required to set aside the necessary number of beds to attend to the needs of expectant mothers and effect the saving of life above indicated. In this respect Chile has an unusual and exceptional opportunity to bring about a reduction of its total mortality in a very marked manner and within a very short period of time.

Due to aroused public opinion and to the cooperation given by the department of public works, the water division of the city of April 30, 1926 826

Santiago, and the national office of water and sewage, notable progress has been made in improving public water supplies.

The cities of Santiago, Los Leones, San Antonio, Talca, Cartagena, San Carlos, and Coquimbo will shortly have their entire water supplies sterilized with chlorine. The necessary apparatus has already arrived for some cities and the orders have been placed for the apparatus and supplies needed by the other cities.

It is understood that the cities of Ovalle, Los Leones, San Antonio, Constitucion, Melipilla, San Felipe, and Los Andes, which had insufficient water formerly, either have now or shortly will have water in sufficient quantity for all domestic needs. An engineering commission is now at work making the necessary studies of available sources of supply preliminary to construction of a new water system for the city of Valparaiso.

### DECREASE IN INFANTILE MORTALITY IN SANTIAGO. CHILE

An editorial in *El Mercurio* for February 11, 1926, published in Santiago, Chile, calls attention to the considerable reduction in the infantile mortality for the city of Santiago, which is attributed to the work of the new sanitary organization.

In 1923 the number of infant deaths in Santiago was 4,971; in 1924, it dropped to 4,464; and in 1925 it was further reduced to 3,195. As compared with 1923, there were 507 infant lives saved in Santiago in 1924, and in 1925 there were 1,776 fewer infant deaths than in 1923.

The table gives a comparison of the infantile mortality in Santiago for the three years, and also a comparison of the figures for the last six months of each of the years.

### Infant mortality in Santiago, Chile

#### BY YEARS

4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				
	1923	1921	1925	
Total number of infant deaths.  Monthly average  Reduction as compared with preceding year.  Per cent reduction	414	4, 464 372 507 10. 2	3, 195 266 1, 269 28, 4	
BY LAST SIX MONTHS				
Total number of deaths.  Moathly average. Reduction as compared with preceding year.  Per cent reduction.	520	2, 483 414 637 20, 4	1, 703 283 780 31, 4	
* 4		20, 7	01. X	

#### THE INTENSIVE TREATMENT FOR HAY FEVER

By WILLIAM SCHEPPEGRELL, M. D., President, The American Hay Fever Prevention Association; Surgeon in charge, Department of Hay Fever and Asthma, Charity Hospital, New Orleans, La.

Since it became established that seasonal hay fever is due to pollens, it has been realized that the prevention and cure of this disease depend upon immunological methods directed against such pollens. Allergists have, therefore, given their special attention to the development of methods by which the resistance of the patient could be raised so that he would no longer be sensitive to the proteins of such pollens.

Theoretically, the subject is quite simple. It would be necessary only to inject the patient with progressive doses of the incriminated pollen or pollens until the amount absorbed from the hypodermic injections would be in excess of that absorbed from the atmospheric pollens, and thus the attack would be prevented. It has, of course, long been realized that hay fever is not a local disease involving the nose (hay fever), the eyes (conjunctivitis), the bronchial tubes (asthma), or the skin (dermatitis), but that these symptoms are simply local manifestations of a general sensitivity.

The difficulty presented in the administration of this treatment, however, was the danger that the increasing doses might develop an anaphylactic shock that might have serious consequences.

An anaphylactic shock is one of the most dramatic manifestations in the treatment of allergic diseases. It depends upon various conditions that are ascertained only by the experienced allergist; and even when these conditions are known and guarded against, it sometimes occurs. The following case illustrates the danger encountered when proper precautions are not taken:

A physician of New Orleans, in treating a hay-fever subject, made an error in the strength of the extract, and instead of giving doses of 50, 75, and 100 units of ragweed extract, as intended, he gave injections of 500, 750, and 1,000 units. These large doses appeared to have no disagreeable effect on the patient. Two weeks later, in treating another patient, he injected 25 units, and the patient promptly developed alarming anaphylactic shock. This case illustrates the fact that while the immunizing treatment of hay fever has proved a great boon to mankind, it is not without its hazards, and should be administered accordingly.

In the early treatment of hay fever, the injections were made at intervals of three or four days with a view to allowing the reaction from each dose to subside before making the next injection. Also, the injections were made with slowly increasing doses. The combination of these two methods resulted in making it difficult to obtain a high dose without a prolonged treatment. In 1924 we commenced to increase the doses more rapidly, with resulting im-

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provement, and in 1925 we reinforced this by making the injections at shorter intervals. These were given, during the first part of the treatment, once daily, and, in the case of visitors to the city, in which time was a special object, twice daily. The doses were rapidly increased practically doubled with each injection; and the maximum dose, instead of being limited to 800 and 1,000 units, was increased to 3,000, 5,000, and, in some cases, to 10,000 units or more.

When the hay-fever season of the patient was due, the maximum dose was reduced to one-half, and the intervals to twice weekly, and this reduced dosage was continued until near the end of the patient's hay-fever season.

In 1923 the Director of the Hygienic Laboratory of the United States Public Health Service at Washington, sent to our department of hay fever and asthma of the Charity Hospital, a glycerol extract of ragweed for testing on our hay-fever patients. Owing to the wide variation in the various pollen extracts on the market, the Hygienic Laboratory had decided to attempt to devise a method of standardizing these pollen extracts in order that all manufacturers could distribute extracts of known and standardized activity.

Since the ragweed extract is the most important of this group of products, the Hygienic Laboratory selected this extract as the first for which a standard should be produced. They succeeded in preparing an extract which reacted in very high dilutions in the skin of sensitive subjects, fixed complements in high dilutions, and had the distinct advantage of retaining its activity for long periods without measurable deterioration. The protein content to a cubic centimeter of the extract was accurately determined, together with its antigenic value, by means of the complement fixation tests.

After a carefully conducted series of tests, we found that the glycerol extract retained in its concentrated form a degree of efficiency far superior to the aqueous extract. In fact, in testing one of these extracts prepared by the Hygienic Laboratory, which we had kept in our refrigerator for two years, it was found to contain at the end of that time almost 100 per cent of its original potency.

Although the glycerol extract retained, in its concentrated form, a high degree of efficiency, this was rapidly lost when weaker solutions were prepared from it. Because of this fact, the dilutions for administration were prepared as they were required, and these were not used more than three days without renewing the supply. The extract furnished by the Hygienic Laboratory was made from mature pollen grains in the proportion of 1 gram to 100 cubic centimeters of extractive fluid, so that each cubic centimeter of the extract contained 10,000 pollen units. In the season of 1925, one-half of all the cases of fall hay fever were treated with the glycerin extract, and we believe that this was an important factor in the success obtained. Every patient

was given the usual diagnostic tests with the various pollen extracts, in order to determine the form and degree of sensitization. These tests were made with the intradermal method, the initial test being made with five per cent dilutions of the extract. We have found the intradermal method the most efficient, but advise the cutaneous method for those who have not had considerable experience with immunological methods.

The intensive treatment of hay fever, which is limited to the preseasonal form, has given the most gratifying results in the percentage of seasonal cures. In uncomplicated cases in which the treatment could be carried out without interruption, there were 72 per cent in which the patients were practically free from all symptoms of hay fever, and 23 per cent in which there was marked relief from the attacks, or a total of 95 per cent of favorable results in the cases treated.

The treatment of hay fever is not without its element of hazard, but this seems not to be especially increased by this method of administration. Physicians who have treated a large number of hay-fever patients by injection of pollen extracts realize that they are using a method which is not without its risks, and great care should therefore be exercised. During the past season we have had not more than 5 cases of anaphylactic shock in a series of 536 cases, and all of these were promptly relieved by the administration of adrenalin.

In the administration of pollen extracts, special care should be taken to avoid making an injection into a vein. In the case of large doses, such an injection would be fellowed by an anaphylactic shock of marked and even alarming intensity. This can easily be avoided by withdrawing the piston of the syringe slightly before the injection is made. If blood enters the syringe, the point of the needle is in a vein, and the site of the injection should be changed accordingly. When injections of larger doses are made, the patient is required to remain in the clinic or the office for 20 minutes as a precautionary measure.

As illustrating the importance of detail in the treatment of such cases, the following case is noted:

J. H. F., 40 years of age, has been a great sufferer from hay fever for eight years. He is a traveling salesman, and his attacks of hay fever, which occurred in the fall, practically incapacitated him for his work during September and October. When he was tested he showed 85 per cent reaction to the common ragweed, which coincided with his season and symptoms, and, as he was in a hurry to leave the city, he was given 15 units as the initial dose of his immunizing treatment. One-half hour later he returned to the office with a marked anaphylaxis, and was relieved with 0.25 cubic centimeter of adrenalin.

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The following day the patient was again injected, but instead of increasing the dose to 30 units, as indicated by our new method, the initial dose of 15 units was repeated. One-half hour later he returned to the office with a marked anaphylactic shock. The skin all over his body was intensely red and covered with a miliary eruption. evelids were puffed up, his face was swollen, and there was a tendency to asthmatic breathing. A dose of adrenalin was again administered. followed by entire relief in about 30 minutes. The patient was naturally alarmed by these violent reactions, and stated that the remedy was apparently worse than the disease, but expressed his willingness to continue the treatment if it was considered advisable. The following day an injection of 5 units was given, followed by daily injections of 10, 15, 20, 25, 35 units, and gradually increasing doses until a dose of 1,000 units was administered without more than a local reaction. In spite of the unfavorable beginning of his treatment, the patient passed the season without any symptoms of hay fever, and proved to be one of our most appreciative patients.

The combined treatment, which has resulted in such gratifying results in a disease formerly considered not amenable to treatment, has three features which are new, viz, (1) the rapidly increasing doses, (2) the short intervals between the injections, and (3) the use of glycerin instead of the aqueous extract. In order to bring about the good results that have been obtained it may not be necessary to combine all three of these methods in treating hay-fever cases, but it is considered highly advisable to do so.

#### PUBLIC HEALTH ENGINEERING ABSTRACTS

A Method of Encouraging Rural Communities to Undertake Malaria Control. A. W. Fuchs. Public Health Bulletin No. 156, United States Public Health Service, pp. 91-97. (Abstracted by L. D. Fricks.)

The advantages of close cooperation between the county health officer and the county agricultural agent are emphasized, and a concrete example is given in which such cooperation was successfully conducted. By this method 10 rural communities in Shelby County, Tenn., voluntarily conducted malaria control campaigns during the season of 1924. The method is based on community pride. The results accomplished were measured by inspections made at the beginning and the end of the season. Consideration was also given to the character of exhibit prepared by the community for the county fair. Because of the intense interest which had been developed in these agricultural exhibits at the Tri-State Fair, and the inclusion of health work in scoring community activity, the keenest rivalry was shown by the competing communities in the improvement of

health and living conditions. Of the 13 participating communities, 10 selected malaria control as their health work. The judge recommended the control measures applicable at the beginning of the season, and checked their accomplishment just before the county fair was held. The final score of the competing communities was announced and prizes were awarded at the fair.

The Mosquito Factor in the Malaria of Assam Tea Gardens. C. Strickland. The Indian Medical Gazette, vol. 60, No. 11, November, 1925, pp. 514-524. (Abstracted by L. D. Fricks.)

A report of a malaria mosquito survey of the tea gardens of Assam with recommendations for control. The problem of malaria control in Assam is rendered peculiarly difficult by the fact that at least six species of *Anopheles* are suspected of transmitting malaria, and the uncertainty of keeping coolie labor on a tea plantation.

The mosquitoes suspected of carrying maleria are umbrosus, jeyporiensis, aconitus, funestus, culicifacies, and maculatus. Their breeding habits vary considerably and measures taken for the control of one species may increase another.

The advantage of a preliminary survey before beginning control operations are emphasized, to be followed by specific application of appropriate control measures. The value of quinine prophylaxis is questioned; that of education, both of planters and coolies, is rated very high.

Oil Supplies for Anti-Mosquito Campaigns. W. G. Stromquist. Public Health Bulletin No. 156, United States Public Health Service, pp. 123-126. (Abstracted by W. G. Stromquist.)

The Department of Health of Memphis in 1920 spent over \$1,800 for oil, buying a mixture of black oil and kerosene at 17½ cents a gallon. To reduce costs, the collection of waste oil from garages and filling stations was begun in 1921, and about 15 per cent of the oil used that year was from this source. By 1924 the use of this oil had increased to 100 per cent. The cost of collection, including labor and truck maintenance, is about  $2\frac{1}{2}$  cents per gallon. Bargains in oil, such as transformer oil, discolored kerosene, etc., can often be found.

The demanding of proper storage and prompt disposal of waste oil by the fire marshal, to reduce fire hazards, resulted in increasing the quality and quantity of oil. The oil now collected is, with rare exceptions, of such quality that it spreads well on the water.

Effects of Pond Control on Malaria Prevalence. L. L. Williams, jr. Public Health Bulletin No. 156, pp. 56-64. (Abstracted by L. D. Fricks.)

Based on observations extending over several years, it is concluded that A. quadrimaculatus is responsible for most of the malaria in Virginia; that this species breeds nearly always in ponds; and that this

breeding or production can usually be controlled by fluctuating the water level in the ponds. Weekly observations of 25 ponds, 6 streams, and 2 seepage areas showed that practically all of the quadrimaculatus came from the ponds. Likewise relatively few A. punctipennis and A. crucians were collected inside dwelling houses. Epidemiological evidence also incriminates A. quadrimaculatus. Malaria in Virginia is grouped around the ponds. It is claimed that the control of mosquito production in ponds will control malaria in Virginia.

A Field Study of Mountain Malaria in Brazil. Nelson C. Davis. The American Journal of Hygiene, vol. 6, No. 1, January, 1926, pp. 119-138. (Abstracted by L. D. Fricks.)

In a brief study of malaria and anopheline mosquitoes made in the mountains of the State of Rio de Janeiro, Brazil, January, 1925, 201 persons were examined; 39 showed positive bloods; 79 enlarged spleens; and 104 gave positive histories. *P. vivax* infections greatly predominated. The majority of the malaria found was considered to be relapses, infection having taken place in the lowlands; but it is suggested that epidemic malaria may occur at this elevation transmitted by *A. argyritarsis* and to a less extent by *A. bellator*, known in Brazil as *A.* (or *Myzomia*) lutzi.

A. bellator was the predominating Anopheles encountered. It came in swarms at night to the lighted houses, but was never found resting in them during the day. Four hundred and fourteen specimens of this mosquito were dissected, and among this number, one infected mosquito was found (stomach positive, salivary glands negative).

Airplane Dusting in the Control of Anopheles. W. V. King and G. H. Bradley. *Public Health Bulletin* No. 156, 1925, pp. 104-106. (Abstracted by L. D. Fricks.)

Dusting Paris green from airplanes in the control of Anopheles breeding was tried during 1923 and 1924 near Mound, La. De Haviland planes with metal dust hoppers, adapted for cotton dusting, were employed. The Paris green was mixed with Tripoli earth and the dust was released from the hopper through the bottom of the fuselage. It was found that the dust could be spread satisfactorily with a wind velocity of less than 10 miles per hour. Heavily wooded areas, rank vegetation, and wind drift were chief among the difficulties encountered. It was concluded that one-half pound of Paris green per acre gave a safe margin for treatment of fairly open Anopheles breeding areas. In the most successful test, 99 per cent of larvae were killed.

The New Water Purification Plant at Toronto, Ohio, Employing Double Coagulation of Ohio River Water. Daniel H. Rupp. Fourth

Annual Report of Ohio Conference on Water Purification, November, 1924, pp. 65-67. (Abstracted by R. E. Thompson.)

The history of the water supply of Toronto, Ohio, is outlined and the new plant, consisting of mixing chamber, coagulation basins, gravity rapid sand filters, and chlorinator, is described. Double coagulation is employed at all times, it having been found that best results with least application of chemicals can be obtained thereby. The amount of alum used has averaged 3 g. p. g., in approximate ratio of 2:1 to first and second basin, respectively, and lime employed has averaged 2 g. p. g. With the exception of the first month of operation filtered water before chlorination has met the requirements of the original standard of United States Public Health Service (2 B. coli per 100 c. c.), and after disinfection with approximately 0.2 g. p. m. of chlorine, giving residual of 0.1 to 0.15 p. p. m. in tap water, final effluent has easily conformed to revised standard (1 B. coli per 100 c. c.).

The Cincinnati Water Works System. Clarence Bahlman. Fourth Annual Report of Ohio Conference on Water Purification, November, 1924, pp. 68-74. (Abstracted by R. E. Thompson.)

Water supply history is outlined and the existing system is described in detail. The present purification plant consists of settling reservoirs. coagulation basins and 28 4-m. g. d. rapid sand filters operated at the rate of 123 m. g. per acre per day. The power for operation of the plant is derived from hydro-electric units installed on pipe lines conveying water from settling basins to purification plant, the available head being approximately 27 feet. The settling reservoirs remove an average of 70 per cent of bacteria and turbidity present in the raw Ohio River water, and the coagulation basins about 20 per The average B. coli content of river water during past 17 years has ranged from 1,700 to 3,400 per 100 c. c. Coagulation is effected with lime and iron sulfate. Quicklime is purchased in lump form and is slaked with filtered water at temperature of 140° F., when the boiler plant is in operation. During the period May-September, inclusive, when cold water is employed, extraction is not as complete, but the loss is immaterial in comparison with the cost of operating the boiler plant. Considerable difficulty has been experienced because of the incrustation of lime solution in the pipe line, which is 900 feet in The cost of operation during 1923 was equivalent to \$6.76 per m. g. delivered into service, of which \$2.44 was expended on There are now over 800 miles of water mains and the supply is practically 100 per cent metered. Boiler feed water employed consists of mixture of 85 per cent condensate free from oil by treatment with alum and caustic soda followed by sand filtration and 15 per cent permutit-softened water.

An Investigation of Variations in Bacterial Quality of Cincinnati Water Supply. Clarence Bahlman. Fourth Annual Report of Ohio Conference on Water Purification, November, 1924, pp. 75-84. (Abstracted by R. E. Thompson.)

Considerable data derived from bacteriological study of water supplied to consumers in Cincinnati, with particular reference to chloring applied and to multiplication of bacteria during distribution, are given. The chlorine dose at present employed varies from 0.18 to 0.27 p. p. m; the former being applied during winter months and the latter during periods of maximum water temperature. During the former season the residual chlorine content of tap water varies from 0.01 to 0.04 p. p. m., but during summer and autumn the free chlorine in the water delivered is practically nil, and during this period the highest B. coli content is recorded. An increase in colon and other bacteria, particularly during summer months, was found to occur even in the suburban distribution system, on which there is no open reservoir. The higher colon content recorded in water from downtown taps than from purification plant effluent was shown to be due to the comparatively high B. coli content of the water in the pure water reservoir which is exposed to falling leaves and dust of the air. Since contamination with human wastes is most improbable. little sanitary significance is attached to the increased number of bacteria in the reservoir water. The ultimate tap water conforms to the proposed standard of the United States Public Health Service.

The Rate of Deoxygenation of Polluted Waters. Emery J. Theriault, Public Health Reports, vol. 41, No. 6, February 5, 1926, pp. 207-217. Reprinted from Proc. Am. Soc. Civ. Eng., vol. 51, November, 1925, pp. 1819-1828. (Abstracted by Emery J. Theriault.

On the basis of 12 separate series of observations covering a cycle of one full year, the following general conclusions have been reached:

1. The Phelps formula holds with reasonable accuracy when applied to samples recently polluted with organic matter.

2. For periods of incubation of less than 10 days it is possible to refer the results obtained under standardized laboratory conditions to the actual times of flow and temperatures of a stream.

3. Under aerobic conditions the stabilization of organic matter

apparently proceeds in two distinct stages.

- 4. The rate at which a polluted water is deoxygenated depends largely on the condition of the sample with respect to its state of
- 5. It is necessary to exercise considerable caution in interpreting the results of analyses when the nitrification stage has almost been
- 6. Absolute values for the purification accomplished by a treatment plant can not be obtained without resorting to protracted incubation.
- 7. A complete solution of the problem probably depends on the development of methods whereby the state of oxidation of a sample may more readily be determined.

Use of Sodium Aluminate as a Coagulant. J. P. Brownstead. Fourth Annual Report of Ohio Conference on Water Purification, November, 1924, pp. 31-36. (Abstracted by R. E. Thompson.)

J. P. Brownstead reported that, during a four-month period in 1924. when aluminate and alum were employed at Ashland, Ky., the cost of coagulants averaged \$9 per m. g., and the reduction in bacteria was in excess of 90 per cent, compared with cost of \$12 per m. g., and bacterial reduction of 70 per cent with alum and lime during period in 1922 when somewhat similar river conditions prevailed. Results of two-month experimental period during which aluminate was substituted for the lime ordinarily used with alum at Ironton, Ohio, where coagulant is applied in primary and secondary basins in ratio of 2 to 1, respectively, are summarized by E. T. Edwards as follows: (1) A trifle higher efficiency was obtained in the primary basin, the floc settling more rapidly and producing a clearer effluent. This resulted in poorer filter efficiency and more algal trouble in the basins; but altering the ratio of coagulant added in primary and secondary basins to 1:1 improved the filter influent and efficiency. (2) When sodium aluminate below the normal lime application was employed, the final effluent contained too great a concentration of free carbon dioxide and had a tendency to be corrosive. Cost of treatment during the period was higher than the average for the year, but the cost of alum and lime would probably have also exceeded the yearly average. Bottle experiments conducted by E. E. Smith at Lima, Ohio, indicated that it would not be economical to replace any part of necessary application of alum with sodium aluminate. Use of latter with alum did not increase the speed of the reaction or produce larger floc particles. C. P. Hoover, in discussing results of laboratory studies at Columbus, Ohio, stated that addition of commercial sodium aluminate in softening by the lime-soda process has the same beneficial effect as alum. It is also an aid to softening on account of its sodium carbonate and hydroxide content, whereas alum increases the noncarbonate hardness and necessitates employment of additional soda ash. It is estimated that commercial sodium aluminate costs from 74 per cent to 135 per cent more than equivalent mixture of alum, soda ash, and lime solutions.

# THE OSAKA (JAPAN) SANITATION EXHIBITION

With a view to increasing the hygienic knowledge of the people and improving medical and sanitary supplies, a sanitation exhibition will be held in Osaka, Japan, from July 15 to August 30, 1926. The exhibition will be held under the auspices of the Federation of Sanitary Associations of Osaka, and with the support of the home office, the Osaka prefecture, and the Osaka municipality.

The exhibits will include all kinds of articles pertaining to sanitation and are divided into two classes or departments: Department A will consist of exhibits sent from Government and public institutions, and department B will include medical and sanitary supplies in general.

There is no charge to exhibitors excepting the cost of transportation of articles of exhibit. Exhibitors of medical and sanitary supplies are allowed to contract to sell their exhibits, bearing certain charges that may be incurred in this connection.

Official organizations, public institutions, and manufacturers who desire to display articles at this exhibition should send in their application at once, together with a list of exhibits, stating the number, size, value, and weight, in order that suitable space may be reserved. The exhibits should arrive in Osaka by July 10.

Further information may be obtained by addressing the Osaka Sanitation Exhibition, care of the Municipal Office, Osaka, Japan.

## DEATHS DURING WEEK ENDED APRIL 17, 1926

Summary of information received by telegraph from industrial insurance companies for week ended April 17, 1926, and corresponding week of 1925. (From the Weekly Health Index, April 20, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week ended April 17, 1926	Corresponding week, 1925
Policies in force		59, 446, 00 <b>7</b> 13, 096
Number of death claims  Death claims per 1,000 policies in force, annual rate	15, 096 13. 3	13, 096

Deaths from all causes in certain large cities of the United States during the week ended April 17, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, April 20, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week end	ded Apr. 1926	Annual death rate per	Deaths	Infant mortality	
City	Total deaths	Death rate ¹	1,000 corre- sponding week, 1925	Week ended Apr. 17, 1926	Corre- sponding week, 1925	rate, weck ended Apr. 17, 1926 ²
Total (67 cities)	8, 678	15. 8	14. 5	1, 088	994	8 92
Akron	75			20	6	213
Albany	33	14. 6	19.5	0	1	0
Atlanta White	80 45			12	7	
Colored	35	(5)		3		
Baltimore 4	219	(5) 14. 3	16.1	26	29	76
White	157			17		61
Colored Birmingham	62	(')		9	Î0	146
White	69 30	(°) 17. 5	17. 7	4	10	
Colored	39	(4)		5		
Boston.	295	19.7	16.5	37	36	104
Bridgeport	43.			5	3	85
Buffalo Cambridge	194 1 43	18. 8 18. 7	15.8 17.0	26 7	24 8	108 116
Camden	37	15.0	19.5	4	9	68
Chicago 4	793	13.8	13.0	86	110	76
Cincinnati	154	19.6	17.2	13	6	81
Cleveland	286	15.9	11.0	-11	29	114
Columbus Dallas	83 48	15.5 12.9	11 9 14.6	7	4 5	64
White	32	12.9	14.0	2	9	
_ Colored	16	(8)		ō		
Dayton	53	16.0	11.8	6	8	94
Denver	79	14.7	16.7	11	10	
Des Moines Detroit	36 416	12.6 17.4	8.7	99	1 48	17 159
Duluth	36	17.0	12.3		1 7	94
El Paso	32	15.9	19.9	7 7	4 3	
Erie	39	(	.		3	133
Fall River 4 Flint	51 21	20.6 8.4	17.4	10	6 7	145 132
Fort Worth	20	11.8	13.0	8 2 2 0	3	102
White	17		10.0	2		
Colored	3	(5)		0		
Grand Rapids	45	15.3	11.5	9	7 9	130
Houston White	53 33	16.8	13.6	6 4	9	
Colored	20	(5)		1 2		
Indianapolis.	119	17.3	14. 1	10	1	73
White	100		-	9		. 76
Colored	19	22, 4	14.9	1 6	1	55 125
Jacksonville, Fla	45 18	22.4	14.9	3	1	98
Colored	27			3		172
Jersey City. Kansas City, Kans	87	14.4	12. 1	9	11	64
Kansas City, Kans	46	20.7	16.6	6	5	104
White	36 10	j	-	2 4		42 525
Colored Kansas City, Mo Los Angeles	105	(5) 14.9	11.5	13	14	
Los Angeles	244			28	26	78
Louisville	101	17.4	14.8	28 9 5	10	78
White	77		-	5		50 251
ColoredLoweli	24 44	20.8	16. 5	2	5	149
Tynn	23	11.6		8	3	75
Lynn Memphis	71	21, 2	20.3	4	10	
White	46			. 2		-
Colored	25	(5) 16. 2	17.3	28		130
Milwaukee	156 128	16.2	14.8	16	22	- 89

¹ Annual rate per 1,000 population.
² Deaths under I year per 1,000 births. Cities left blank are not in the registration area for births.
³ Data for 62 cities.
⁴ Deaths for week ended Friday April 16, 1926.
⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31, Baltimore, 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended April 17, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, April 20, 1926, issued by the Bureau of the Census, Department of Commerce)—Continued

	Week end		Annual death rate per	Deaths ye	under 1 ar	Infant mortality rate,	
City	Total deaths	Death rate	1,000 corre- sponding week, 1925	Week ended Apr. 17, 1926	Corre- sponding week, 1925	week ended Apr. 17, 1926	
Nashville 4 White. Colored. New Bedford. New Haven. New Orleans. White. Colored. New York. Bronx Borough Brooklyn Borough Manhattan Borough Queens Borough Richmond Borough. Newark, N. J. Notfolk. White. Colored Oakland. Oklahoma City Omaha. Paterson. Philadelphia Portland, Oreg. Providence. Richmond White. Colored Rochester. St. Louis. St. Paul. Salt Lake City' San Antonio. San Diego. San Francisco. Schenectady. Seattle. Springfield, Mass. Syrncuse. Tracolored Trenton. Washington, D. C. White. Colored Toolored. Trenton. Washington, D. C. White. Colored Trenton. Washington, D. C. White. Colored Toolored. Trenton. Washington, D. C. White. Colored Toolored. Trenton. Washington, D. C. White. Colored Colored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. Toolored. 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To	132 448 1, S30 1, S30 1, S30 1737 1737 1738 122 200 200 200 242 242 242 242 2	20. 7  (*) 22. 2 15. 2 16. 6  (*) 16. 8 12. 8 12. 6 20. 7 15. 1 15. 0 20. 0 12. 2 14. 2 15. 0 16. 0 12. 7 18. 4 17. 2 18. 1 17. 3 18. 1 17. 3 18. 1 18. 1 18. 1 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19	13. 0  14. 8 12. 2 20. 4  14. 5 12. 1 20. 3 9 9 18. 1 16. 2  12. 9  16. 3 17. 3 14. 6 16. 8 15. 0 15. 6 18. 2 12. 1 14. 0 16. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18. 1 18.	4 4 3 1 11 1 12 6 6 6 251 251 294 4 1 3 3 3 3 7 7 7 62 2 6 6 20 4 4 9 9 1 1 3 3 3 2 2 5 5 5 3 3 3 1 1 2 5 5 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 6 16 16 17 19 15 8 8 17 17 15 15 25 5 25 10 10 11 15 15 15 10 16 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	102 102 103 103 112 1136 88 89 171 130 149 30 149 219 219 219 219 219 219 219 219 219 21	
Waterbury Wifmington, Del Yonkers Youngstown	57 35 26 53	15. 0 11. 9 17. 3	12.8 9.6 12.1	1 2 3 6	4 6 4 9	96 111 90 144	

⁴ Deaths for week ended Friday, April 16, 1926.
⁵ In the cities for which deaths are shown by color, the colored population for 1920 constituted the following percentages of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans. 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 33, Richmond 32, and Washington, D. C. 25.

# PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

### UNITED STATES

#### CURRENT WEEKLY STATE REPORTS

These reports are preliminary and the figures are subject to change when later returns are received by the State health officers

#### Reports for Week Ended April 24, 1926

ALABAMA		CALIFORNIA	
	Cases		Cases
Chicken pox	46	Cerebrospinal miningitis-Alameda County.	
Diphtheria	7	Chicken pox	
Influenza	141	Diphtheria	95
Malaria	8	Influenza	. 17
Measles	262	Measles	295
Mumps	63	Mumps	297
Pellagra	13	Poliomyelitis-Los Angeles	. 1
Pneumonia	94	Scarlet fever	105
Poliomyelitis	1	Smallpox:	
Scarlet fever	19	Los Angeles	. 26
Smallpox	51	Oakland	. 19
Tuberculosis	178	San Francisco	. 10
Typhoid fever	. 14	Scattering	
Whooping cough		Typhoid fever	
		Whooping cough	
ARIZONA	_		
Chicken pox		COLORADO	
Influenza		Chicken pox	
Measles		Diphtheria	. 28
Pneumonia		German measles	
Scarlet fever		Influenza	
Trachoma		Measles	. 54
Tuberculosis	. 18	Mumps	. •
Typhoid fever	. 1	Pneumonia	
ARKANSAS		Scarlet fever	49
	. 34	Smallpox	. :
Chicken pox		Tuberculosis	. 5
Diphtheria		Typlmid fever	. :
Influenza	-	Whooping cough	. 7
Malaria		_	
Measles		CONNECTICUT	_
Mumps		Chicken pox	
Pellagra		Diphtheria	
Scarlet fever		Mumps	
Smallpox		Paratyphoid fever	
Trachoma		Pneumonia (broncho)	
Tuberculosis		Pneumonia (lobar)	
Typhoid fever		Poliomyelitis	
Whooping cough	. 42	Scarlet fever	. 8

(839)

CONNECTICUT—continued	[	ILLINOIS—continued	
Septic sore throat	Cuses I	Lethargic encephalitis-McLean County	Cases
Tetanus		Measles	1, 075
Tuberculosis (all forms)		Pneumonia	357
Typhoid fever		Pulternyelitis-Lake County	1
Whooping cough	- 50		352
DELAWARE		Smallpox	28
Metales	_ 38	Tuberculosis	360 7
Pneumonia	- 5	Typhoid fever Whooping cough	
Scarlet fever		" Moding Cough	210
Tuberculosis		INDIANA	
Whooping cough	4	Chicken pox	51
FLORIDA		Diphtheria	
Chicken pox	- 59	Influenza	
Diphtheria		Measles	
Influenza		Mumps	1
Malaria	4	Pneumonia	13
Measles.		Scarlet fever	
Mumps		Smallpox	109
Pneumonia.		Tuberculosis	
Scarlet fever		Typhoid fever	6 138
Smallpox Tuberculosis		Whooping cough	(90
Typhoid fever		IOWA	
Whooping cough	-	Chicken pox	12
	,,	Diphtheria	
GFORGIA		German measles	
Cerebrospinal meningitis	1	Measles	
Chicken pox	23	Mumps	27
Dengue	1	Paratyphold tever	
Diphtheria		Pneumonia	
Dyseniery		Searlet fever	
Hookworm disease		Smallpox	
Influenza		Tuberculosis	
Mularia Measles		Whosping cough	. 13
Mumps		KANSAS	
Pellagra.			
Pneumonia.	-	Chat a see	44.4
Scarlet fever		Oneten pox Diphtherm	
Septic sore throat	6	Ouththeria   German measles	43
Smallpox.		Influenza	
Tuberculosis		Me isles	
Tularenia		Mumps.	
Typhond fever		Pneumonia	30
Whoeping cough	31	Scarlet ie ver	. 52
IDAHO		Smallpox	. 10
Corebrospinal meningitisSaint Maries	_	Tetanus	
Chicken pox.		Tuberculosis	. 39
Diphtheria		Typhoid fever	. 1 . 199
Influenza		Whooping cough	. 199
Measles		LOUBIANA	
Mumps		Corebrospinal meninguis	. 1
Pneumonia.	2	Diphtheria.	
Scarlet fever		Influenta	
\$mallpox		Measles	
Typhoid fever		Pneumonia	. 54
Whooping against the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	- 18	Scarlet fe ver	
ILLINO?		Smallpox	
₽iphtheria	'88	Tuberculosis	. 26
Influenza		Typhoid fever	-
	100	Whooping cough	16

•	•		
MAINE	C	MINNESOTA	Conse
	Cases		Cases
Chicken pox	15	Cerebrospinal meningitis	2
Diphtheria	1	Chicken pox	99
German measles	60	Diphtheria	37
Influenza	257	Influenza	4
Lethargic encephalitis	1	Measles.	602
Measles	274	Pneumonia	7
Mumps	67	Scarlet fever	320
Pneumonia	38	Smallpox	2
Scarlet fever	12	Tuberculosis	58
Tuberculosis	10	Typhoid fever	6
Typhoid fever	1	Whooping cough	24
Vincent's angina	8	Mississippi	
Whooping cough	31	Mississirri	
MAR/LAND!		Cerebrospinal meningitis.	1
Chicken pox	64	Diphtheria	7
Diphtheria	23	Scarlet fever	5
Dysentery	1	Smallpox	14
German measles	2	Typhoid fever	3
Influenza	42	ž	
Lethargic encephalitis	1	MISSOURI	
Measles.	567	(Exclusive of St. Louis)	
Mumps	241		
Ophthalmia neonatorum	1	Cereprospinal meningitis	3
Paratyphoid fever	1	Chicken pov	22
Pneumonia (broncho)	75	, Diphtheria	10
Pneumonia (lobar)	61	Influenza	18
Scarlet fever.		Malaria	13
Septic sore throat	6	Measles	518
Tetanus		Mumps	14
Tuberculosis		Pneumonia	14
Typhoid fever		Rabies (in animals)	4
Whooping cough		Scarlet fever	107
	• • •	Smallpox	4
MASSACHUSETTS		Tetanus	1
Cerebrospinal meningitis		Tuberculosis	68
Chicken pox		Whooping cough	45
Conjunctivitis (suppurative)		MONTANA	
Diphtheria			
German measles	292	Chicken pox	18
Influenza		German measles	42
Lethargic encephalitis	. '2	Measles	55
Malaria	. 1	Mumps	33
Measles	832	Rocks Mountain spotted fever-Quartz	1
Mumps	104	Searlet fever	40
Ophthalmia neonatorum	36	Smallpox	2
Pneumonia (lobar)	181	Tuberculosis	1
Poliomyelitis		Whooping cough	13
Scarlet fever	259	NEPRASKA	
Septic sore throat			17
Trachoma	. 3	Chicken pox	8
Trichinosis		Diphtheria	41
Tuberculosis (pulmonary)		Influenza	29
Tuberculosis (other forms)			7
Typhoid fever		Munps	2
Whooping cough	327	Pneumonia	
MICHIGAN		Scarlet fever	80
Diphtheria	. 69	Smallpox	16
Measles.		Whooping cough	, 9
Pneumonia		NEW JERSEY	
Scarlet fever		Cerebrospinal meningitis	4
Smallpox		Chicken pox	177
Tuberculosis		Diphtheria	
Typhoid fever		Influenza	
Whooping cough	. 208	4 T	
¹ Week ended Friday.			-
- " oer ended rinds".			, 1

NEW JERSEY—continued		OREGON	
tian annual companies	Cases	3.12.11	Cases
Measles		Chicken pos	45
Pneumonia		Diphtheria	20
Scarlet fever		Influenza	43
Trachoma.		Lethargic encephalitis	1
Typhoid fever.		Measles	51
Whoaping cough	. 87	Mumps.	41
NEW MEXICO		Pneumona	27
Chicken pox		Rocky Mountain spotted fever	į.
Diphtheria		Scarlet fever. Septic sore throat	61 1
Influenza		Smallpox	21
Lethargic encephalitis		Tuberculosis.	6
Measles		Typhoid fever	6
Mumps		Whooping cough	44
Pellagra Pneumonia			
Scarlet fever		PENNSYLVANIA	
Tuberculosis		Cerebrospinal meningitis:	
Whooping cough		Carrick.	i
		Valley township 3	i
NEW YORK		Chicken pox.	227
(Exclusive of New York City)		Diphtheria.	99
		German measles	53
Cerebrospinal meningitis		Measles	3, 432
Chicken pox		Mumps	95
Diphtheria German measles		Pueumonia	133
Influenza		Searlet fever	501
Lethargic encephalitis		Smallpox	1
Malaria		Tuberculosis	111
Mensles		Typhoid fever	
Mumps	,	Whooping cough	353
Ophthalmia neonatorum		RHODE ISLAND	
Pneumonia			
Poliomyelitis	_ 1	Chicken pox	
Scarlet fever	_ 229	Diphtheria German nieasles	
Septic sore throat	_ 2	Influenza	
Trachoma		Measles	
Typhoid fever		Mumps	
Vincent's augina		Searlet fever	
Whooping cough	. 369	Typhoid fever	
OKLAHOMA		Whooping cough	
(Exclusive of Oklahoma City and Tuls		SOUTH DAKOTA	
	,		_
Cerebrospinal meningitis:	_	Chicken pox Diphtheria	
Grady County		Measles	
Okmulgee County		Mumps	
Chicken pox		Pneumonia	
Influenza		Scarlet fever	
Malaria		Smallpox	
Measles		Tuberetilosis	
Pellagra		Whooping cough	
Pneumonia			
Scarlot fever		· TENNERE	
Smallpox:		C'erebrospinal meningitis:	
Carter County		Lawrence County	
Comanche County		Nashville	
Scattering.		Chicken pox	
Typhoid fever	. 4	Diphtheria	
Whooping cough	. 11	Influenza	. 100
* Deaths.		* ('ounty not specified.	

TENNESSEE-continued	Cases	WASHINGTON—continued	Cases
Lethargie encephalitis-Maury County	1	Smallpor	45
Malaria	6	Tuberculosis	36
Measles.	468	Typhoid fever	3
Mumps	15	Whooping cough	76
Pellngra	8	WEST VIRGINIA	
Pneumonia	70	Cerebrospinal meningitis—	
Poliomyelitis-Bedford County.	1	Monongalia County	1
Rabies	1	Wirt County	10
Scarlet fever	13 20	Chicken por	48
Smallpox Tuberculosis	20	Diphtheria	
Typhoid fever	4	Influenza	
Whooping cough	47	Measles	816
		Scarlet fever	51
TEXAS		Smallpox	19
Chicken pov	90	Tuberculosis	14
Dengue	4	Typhoid fever	3
Diphthena	16	Whooping cough	26
Influenza Measles	67 13	WISCONSIN	•
Mumps	23	Milwaukee:	
Pellagra	4	Chicken pox	67 9
Preumonia	21	Diphtheria German measles	2
Scarlet fever	18	Influenza	
Smallpox	79	Measles	
Tuberculosis	25	Mumps	
Typhoid fever	3	Pneumonia	
Whooping cough	43	Pohomyelitis	
Time at		Scarlet fever	. 17
Chicken and	35	Tuberculosis	. 25
Chicken Lox	აი <b>წ</b>	Whooping cough	. 30
DiphtheriaInfluenza		Scattering:	
Measles		Cerebrospinal meningitis	
Mumps		Chicken pox	
Scarlet fever		Diphtheria	
Smallpox	2	German meusles	
Tuberculosis	2	Influenza Measles=	
Wheoping (ough		Mumps	
VERMONT -		Ophthalmia neonatorum	
	14	Pneumonia	
Chicken pox		Scarlet fever	
Measics		Smallpox	
Mumps		Tuberculosis	
Scarlet fever		Typhoid fever	
Whooping cough	26	Whooping cough	. 112
VIRGINIA		WYOMING	
	. 1	Chicken pox	
Smallpox		Diphtheria German measles	
WASHINGTON		Mossles	
Cerebrospinal meningitis-Spokane	. 2	Mumps	
Chicken pox		Rocky Mountain spotted fever:	
Diphtheria		Johnson County	. '1
German measles		Natrona County	
Measles		Scarlet fever	
Mumps.		Smallpox	
Scarlet fever	. 71	Whooping cough	_ 16
Report for W	eek F	nded April 17, 1926	
		NORTH DAKOTA—continued	
NORTH DAKOTA	Cases	MOREE DAROTA-COMMINGO	Case
Cerebrospinal meningitis		Pneumonia	
Chicken pox		Scarlet fever	
Diphtheria	. 13	DUNISEL BOVER	
		Consileror	١ ١
German measles	. 161	Smallpox	
Indiana	. 161 . 20	Trachoma	_ :
Influenza	. 161 . 20 . 1	Trachema.	! :
Indiana	. 161 . 20 . 1 . 27	Trachoma	! :

### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Cere- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
February, 1926 Arkansas Idaho March, 1926	1 7	28 28	1, 131 45	89 0	27	19 0	1 0	40 96	22	10 .3
Colorado: New Jersey North Dakota Ohio	0 9 4	139 312 41 364	\$8 892 336 2, 580	2	191 10, 499 117 14, 861	0	1 6 0 1	193 894 403 1, 984	5 5 17 309	62 26 0 33

# Number of Cases of Certain Communicable Diseases Reported for the Month of February, 1926, by State Health Officers

Minimal property of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of t					~				
State	Chick- en pox	Diph- theria	Mea- sles	Mumps	Scar- let fever	Small	Tuber- culo- sis	Ty- phoid fever	Whoop- ing cough
Alabama	281	83	186	205	82	148	314	51	122
Arizona	84	20	3	52	45	3	57	2	9
Arkansas	97	28	27	93	40	22	149	10	131
California	1,783	473	364	1, 231	673	658	1 705	41	226
Colorado	236	84	47	1, 201	109	4	126	6	290
Connecticut	446	183	2. 591	50	331	ő	111	11	281
Delawara	41	11	682	00	9	i	23	12	11
Delaware	150	95	231		103	ñ	89	3	69
Florida	130	55	29	98	49	558	37	31	39
Georgia	128	53	393	194	27	70	112	12	. 80
Idaho	120	28	1,550	1	96	,,,	-1	13	r su
Illinois	1, 497	392	3,337	462	2, 129	163	1, 132	49	804
Indiana	396	144	4, 953	3	1, 056	419	149	14	410
Iowa 2	000	111	3,000		1,000	71.0	1 110	1	110
Kansas	407	72	691	86	336	55	145	4	357
Kentucky 3	10.	′-	001	1 00	000		1.10	-	001
Louisiana	75	67	5	8	64	250	1 157	50	24
Maine	114	7	248	87	124	ő	33	9	141
Maryland	416	105	5, 951	699	212	4	321	11	195
Massachusetts	826	. 273	6.441	347	1, 119	õ	583	23	1, 053
Michigan.	844	381	7, 807	127	1, 503	32	434	20	1,312
Minnesota	665	219	511	1	1, 733	54	260	26	179
Mississippi	1,047	153	1,802	1.519	53	82	331	65	1, 267
Missouri	432	357	947	252	1,052	34	187	13	207
Montana	93	16	37	210	152	36	14	14	49
Nebraska	00	42	31	210	179	50	1 14	i	75
Nevada 4		7.5			110			•	
New Hampshire 4									
New Jersey	1.334	341	8, 578		813	0	392	17	296
New Mexico	91	28	13	55	41	17	143	7	95
New York	2,379	840	14, 226	870	1,769	3	1,468	80	1, 963
North Carolina	909	114	859	0.0	149	115	1 2, 200	Š	687
North Dakota	83	io	88	186	470	34	16	5	63
Ohio.	1, 172	389	15, 090	197	1,639	308	456	42	1,448
Oklahoma 5	143	60	53	76	161	80	48	16	159
Orogon	171	89	210	239	168	185	69	14	203
Pennsylvania 2	1								
Rhode Island	55	27	2, 138	20	51	0	27	3	68
South Carolina	30	183	36	l g	32	83	193	62	470
South Dakota	104	31	86	295	396	15	1	7	30
Tennessee	306	63	1,565	116	160	94	193	29	67
Texas 3	200	0.0	2,000		200	-	1		
Utah 2									
Vermont	165	7	56	54	83	0	14	3	146
Virginia	827	137	1, 220		293	34	1 120	27	737
Washington	425	95	77	555	402	897	127	15	419
West Virginia	187	74	983		152	25	62	47	198
Wisconsin	951	236	1.280	617	712	44	183	16	720
Wyoming	25	2	18	40	67	î	3	î	47
* · ··································	1	_	1 -	1	1	•	1	-	1 . ~
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Pulmonary.
Report not received at time of going to press.
Reports received weekly.

Reports received annually.
 Exclusive of Oklahoma City and Tulsa.

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### Case Rates per 1,000 Population (Annual Basis) for the Month of February, 1926

State	Chick- en pox	Diph- thena	Mea- sles	Mumps	Scar- let fever	Small- pox	Tu ber- culo- sis	Ty- phoid fever	Whoop- ing cough
Alabama Arizona	1. 47 2. 60	0. 43 . 62	0.97 .09	1. 07 1. 61	0. 43 1. 39	0. 78 . 09	1. 64 1. 76	0. 27 . 06	0. 64 . 28
Arkansas	.68	. 20	, 19	. 65	. 28	. 15	1.34	.07	. 91
California	5.63	1.49	1.15	3.89	2.12	2.08	1 2. 23	.13	. 71
Colorado	2.98	1.06	. 59	.21	1.37	. 05	1. 59	. 08	3.66
Connecticut	3.73	1. 53	21.67	.42	2. 77	. 00	- 93	. 09	2.35
Delaware District of Columbia	2.26	. 61	37.54		. 50	.06	1. 27	. 11	. 61
District of Columbia	3.84	2. 43	6.43	;-;:-!	2.64	. 00	2. 28	.08	1.77
Florida	1, 52	. 64	. 34 1 66	1. 15	. 57	6. 54	. 43	. 36	. 46
Georgia	. 54	. 22 . 73	1.00	.82	. 11 2. 49	. 30	.47	. 05 . 08	. 04
Idaho Illinois	2.77	.72	6. 17	.85	3. 93	.30	2, 09	.09	1.49
Indiana	1.67	. 61	20 94	.01	4.46	1.77	. 63	.06	1. 73
Iowa 2	1.07	. 01	20 52	.01	1. 10	.1.11	.05	.00	1. FO
Vonces	2.91	. 52	4.94	. 62	2, 40	. 39	1.04	.03	2, 55
Kansas Kentucky ³	2.01	. 02	7. 01	. 02	₽. <b>1</b> 0	. 35	1.01	.00	2.00
Louisiana.	. 52	. 46	. 03	. 06	.41	1,72	11.08	.34	. 17
Maine	1.89	. 12	4.12	1.44	2,06	. 00	. 55	.15	2.34
Maryland	3.49	. 88	49 95	5. 87	1.78	. 03	2.69	.00	1.64
Massachusetts	2,58	.85	20. 10	1.08	3.49	.00	1.82	.07	5. 16
Michigan	2.59	1. 17	23.98	. 39	4.62	.10	1. 33	. 06	4. 03
Minnesota	3.34	1 10	2. 57		8 70	. 27	1.31	.13	. 90
Mississippi	7.62	1. 11	13. 12	11.08	.39	. 60	2.41	. 47	9, 22
Missouri	1.62	1. 34	3 55	. 94	3.94	.13	. 70	. 05	. 78
Montana	1.82	. 31	.73	4. 12	2.98	.71	. 27	.08	. 96
Nebraska		.40		1	1.71		, -,	.01	1
Magada i									
New Hampshire									
New Jersey	4.87	1, 24	31, 32		2, 97	.00	1.43	.08	1.08
New Mexico	3, 10	. 95	. 44	1.87	1.40	. 58	4.87	. 24	3, 24
New York	2.76	. 97	16, 50	1.01	2.05	.00	1.70	.09	2.28
North Carolina	4.24	. 53	4. 01		. 69	. 54		.04	3, 20
North Dakota	1.56	. 19	1.65	3.50	8.83	. 64	.30	.09	1.18
Obio	2 38	. 79	30.62	.40	3.33	. 62	. 93	.09	2.94
Oklahoma 5	.82	. 34	. 30	.44	.92	. 46	. 27	.09	.91
Oregon Pennsylvania 2	2.60	1.35	3 19	3.63	2.55	2 81	1.05	. 21	3,09
Pennsylvania 2							1		
Rhode Island	1.11	. 55	43. 16	. 40	1.03	.00	. 55	. 06	1.37
South Carolina	. 22	1.33	. 26	. 67	. 23	. 60	1.40	.45	3.41
South Dakota		. 60	1. 67	5. 72	7.68	. 29	. 02	. 14	. 58
Tennessec	1.63	. 34	8.36	. 62	.85	. 50	1.03	. 15	. 36
Texas !				.					
Utah ²			2-==-				<u>-</u>		
Vermont.	6.10	. 26	2.07	2.00	3.07	. 00	. 52	.11	5, 40
Virginia	4.36	.72	6. 43		1.54	. 18	1.63	. 14	3.88
Washington	3.69	. 83	. 67	4. 82	3.49	3, 45	1.10	. 13	3.64
West Virginia	1.50	. 59	7.88		1.22	. 20	.50	. 38	1.59
Wisconsin		1.09	5, 89	2.84	3.28	. 20	.84	.07	3.31
Wyoming	1.44	.11	1.03	2.30	3.85	.06	.17	.06	2.70
	i	i	t	1	i	1	1	1	4

Pulmonary.
Report not received at time of going to press.
Reports received weekly.
Reports received annually.
Exclusive of Oklahoma City and Tulsa.

### RECIPROCAL NOTIFICATIONS

Notifications regarding communicable diseases sent during the month of March, 1926, to other State health departments by departments of health of certain States

Referred by—	Chick- en pox	Mea- sles	Scarlet fever	Small- pox	Cerebro- spinal menin- gitis	Tuber- culosis	Ty- phoid fever
Illinois Massachusetts			2	7		4	
Minnesota	1			' '		41	1
New York		2	3	2			3
Washington					1		
				1			

### PLAGUE ERADICATIVE MEASURES IN LOS ANGELES, CALIF.

The following items were taken from the report of plague eradicative measures from Los Angeles, Calif .:

Week ended Apr 10, 1926:

Number of rats trapped	_ 1, 072
Number of rats found to be plague infected	_ 0
Number of squirrels examined	_ 458
Number of squirrels found to be plague infected	_ 0
Number of mice trapped	_ 1,039
Number of mice found to be plague infected.	_ 0
1 C P C C C C C C C C C C C C C C C C C	

Date of discovery of last plague-infected rodent, Nov. 6, 1925.

Date of last human case, Jan. 15, 1925.

### GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended April 10, 1926, 35 States reported 984 cases of diphtheria. For the week ended April 11, 1925, the same States reported 1,233 cases of this disease. One hundred and two citics, situated in all parts of the country and having an aggregate population of more than 30,400,000, reported 680 cases of diphtheria for the week ended April 10, 1926. Last year for the corresponding week they reported 875 cases. The estimated expectancy for these cities was 936 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-two States reported 16,797 cases of measles for the week ended April 10, 1926, and 4,297 cases of this disease for the week ended April 11, 1925. One hundred and two cities reported 10.404 cases of measles for the week this year, and 2,932 cases last vear.

Poliomyclitis.— The health officers of 36 States reported 10 cases of poliomyelitis for the week ended April 10, 1926. The same States reported 17 cases for the week ended April 11, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-five States—this year, 3,401 cases; last year, 3,615 cases; 102 cities—this year, 1,599 cases; last year, 2,024 cases; estimated expectancy, 1,119 cases.

Small pox.—For the week ended April 10, 1926, 35 States reported 735 cases of smallpox. Last year for the corresponding week they reported 705 cases. One hundred and two cities reported smallpox for the week as follows: 1926, 190 cases; 1925, 282 cases; estimated expectancy, 138 cases. Twenty-six deaths from smallpox were reported by these cities for the week this year-25 at Los Angeles, Calif., and 1 at San Francisco, Calif.

Typhoid fever.—One hundred and forty-six cases of typhoid fever were reported for the week ended April 10, 1926, by 34 States. For the corresponding week of 1925, the same States reported 186 cases of this disease. One hundred and two cities reported 41 cases of typhoid fever for the week this year and 52 cases for the corresponding week last year. The estimated expectancy for these cities was 51 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 96 cities, with a population of more than 29,700,000, as follows: 1926, 2,003 deaths; 1925, 1,230.

### City reports for week ended April 10, 1926

The "estimated expectancy" given for diptheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past mine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

		Chick-	Diph	theria	Influ	enza	****		7
Division, State, and city	Population July 1, 1925, estimated	en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases 1e- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, eases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine: Portland	75, 333	Q	1	0	9	o	138	6	5
New Hampshire: Concord Nashua	22, 546 20, 723	0 0	0	0	0	0	e 0	0	4 0
Yermont: Barre Burlington	10, 008 21, 089	0	0	0 8	0	0	0	0	1 2
Massachusetts:  Roston Fall River Springfield	142,065	32 1 4	56 3 4	32 5 2	39 8 1	9 4 2 3	180 5 97	39 4 0	52 3 4
Worcester Rhode Island: Pawtucket Providence	190, 757 69, 760 267, 918	0 0	5 1 10	2 0 5	15 0 2	1 1	48 74	0	29 8 19
Connecticut: Bridgeport Hartlord New Haven	(¹) 160, 197 178, 927	0 5 2	7 7 3	3 4 0	16 6 3	11 1 0	3 42 76	1 0 3	7 14 6
MIDDLE ATLANTIC		•							
New York: Buffalo New York Rochester Syracuse.	316, 786	14 111 11 2	12 246 7 6	12 129 19 1	11 244 1 0	18 72 3 1	2,017 183 73	1 45 0 9	25 415 5 2
New Jersey: Camden Newark Trenton	128, 642 452, 513 132, 020	7 38 5	5 17. 4	5 3 1	10 10 2	1 4 3	17 317 41	0 5 1	6 26 11
Pennsylvania: Philadelphia Pittsburgh Reading	631, 563	51 27 7	76- 18 3:	68 13 0		16 35 0	859 20 18	11 0 0	109 72 9

City reports for week ended April 10, 1926-Continued

			Diphi	theria	Influ	enza			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, eases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
EAST NORTH CENTRAL		1							
Ohio:									
Cincinnati	409, 333 936, 485	1 15	8 20	6 24	14 59	24 28	63 170	2 2	28 52
Cleveland Columbus	279, 836	3	4	1	1	1	475	] 1	18
ToledoIndiana:	287, 380	47	4	2	3	3	265	0	11
Fort Wayne	97. 846	11	2	0	0	0	23	0	0
Indianapolis South Bend	. 358, 819	, 10	6	1 3	0	1 0	550 G	4 0	22 4
Terre Haute	80, 091 71, 071	1 0	ō	i	0	0	11	0	1
Ulmois.		1	i						
Chicago	2, 995, 239 81, 564	97	95	54 0	68 0	29	143	13 12	98 3
Peoria Springfield	63, 923	4	ĭ	ŭ	2	i	36	12	$\frac{3}{2}$
Michigan' Detroit	1	25	48	30	4	12	450	10	92
Flint	130, 316	9	4	2	6	2	33	0	7
Grand Rapids	153, 698	9	3	0	0	5	43	0	5
Wisconsin: Kenosha	50, 891	1	1	0	0	0	2	0	. 3
Madison	46, 385	1	0	0	0	0	158	0	
Milwaukee Racme	509, 192 67, 707	108	14	6 2	34	13	126	30 5	21 1
Superior	39, 671	0	0	Ō	0	0	18	Õ	ī
WEST NORTH CENTRAL		ì							
Minnesota:		1			1			1	-
Duluth Minneapolis	110, 502 425, 435	14 104	15	27	0	0	412	1 3	3
St. Paul	246, 001	25	15	9	ŏ	i	22	4	22
Iowa: Davenport	52, 469	. 4	, 0	1	0	:	0	. 0	10
Des Moines	141, 441	1	2	i	ő		395	ő	
Sioux City	. 76, 411	3	1 0	1	0	,	4 7	1 0	
Waterloo	36, 771	l	0	1	0		,		
Kansas City	367, 481	9	6	5	9	11	332	2	29
St. Joseph St. Louis	78, 342 821, 543	36	38	1 55	3	2	10 598	0 4	5
North Dakota:			1	1		1	l	-	
Fargo	26, 403 14, S11	1 0	1 0	0	0	0	0	23	0
South Dakota.	1	i	i	1	ļ		ļ		
Aberdeen Sioux Falls	15, 036 30, 127	1 0	. 0	0	0	0	8 9	39 0	ō
Nebraska:						1		1	U
Lincoln Omaha		9	3	0	0	0	0 50	0	3 12
Kansas:	1	1	1	1			1	Ì	12
Topeka Wichita	55, 411 88, 367	14	1	0	0	0	22 160	0	1 6
SOUTH ATLANTIC					Ì				
Delaware:		-	_						1 .
Wilmington	122, 049	1	2	3	0	0	30	0	9
Maryland: Baltimore	794, 296	56	26	15	20	5	316	142	41
Cumperiano	33, 741 12, 035	0	1	0	2	1	22 42	0	. 0
Frederick District of Columbia;	í	ł	0		0	1	1 42	. 4	2
Washington Virginia:	497, 906	37	9	17	1	1	576	0	19
* Lynchburg	30, 395	11	0	1	0	0	55	0	2
Norfolk Richmond	231	13	0	0	0	0 2	1	2	2 3 4
Roanoke	58, 208	1 1	20	3	0		50 150	12 2	1 1
1 No estimate made						-	_	_	

¹ No estimate made.

### City reports for week ended April 10, 1926-Continued

		Chi-t-	Diph	theria	Influ	ienza			70
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
SOUTH ATLANTIC-con.									
West Virginia:							_		_
Charleston Huntington Wheeling	49, 019 63, 485 56, 208	4 0 3	1 0 0	1 0 0	7 0 0	0 5 3	13 0 122	0 0 0	3 1 6
North Carolina: Raleigh Wilmington	30, 371 37, 061	4 4	0	0	0	2 0	0	0 10	1
Winston-Salem South Carolina:	69,031	.8	1	0	O	0 2	6	6	5 2
Charleston Columbia Greenville	73, 125 41, 225 27, 311	0 5 1	0 1 0	0 0 0	0	0 0	8 1 0	3 2	0 1
Georgia: Atlanta	(1)	3	2	3	16	4	12	0	14
Brunswick Savannah	16, 809 93, 134	5 2	0 0	ő	0 12	0 7	0 5	0	0 2
Florida: St. Petersburg Tampa	26, 847 94, 743	4	0 1	ō	0	0	2	i	1 9
EAST SOUTH CENTRAL			1						
Kentucky:				1	1				1
Covington Louisville Tennessee:	58, 309 305, 935	7	1 5	3	15	6	331	0	10 39
Memphis Nashville	174, 533 136, 220	11 0	4	13 4	0	7 11	93 39	17	10
Alabama: Birmingham	20., 670	28	2	1	26	17	121	5	, 11
Mobile Montgomery	65, 955 46, 481	0 11	0	0	0	0	0	31	0
WEST SOUTH CENTRAL	-								1
Arkansas:					-		.i 0	0	
Fort Smith Little Rock	31, 643 74, 216	5 7	0	0	0	1	35		3
Louisiana: New Orleans	414, 493	3	8	3	18	7	17	0	10
Shreveportklahoma:	57, 857	6	0	0	0	1	0	1	4
Oklahoma City Texas:	(1)	1	1	1	,28	0	4		2
Dallas Galveston	194, 450 48, 375	24 0	3	5 0	1 0	0	0		4 0 7
Houston San Antonio	164, 954 198, 069	5	1	6 0	0	0	0	9	8
MIATHUCE									
Montana:		1							1
Billings Great Falls	17, 971 29, 883	1 25	0	0	0	0	14		0
Helena	. 12,037	-0	Ŏ O	0	0	0	- 0	0	0 1 1
Missoula Idaho:	12,668	1	1	1	1	į	0	1	1
Colorado: Denver	23, 042	3 23	10	9	0	5	24	1	5
Pueblo	43, 787	13	2	ŏ	0		6	- 0	0
New Mexico: Albuquerque	21,000	0	1	0	0	0	1	. 7	C
Arizona: Phoenix	38, 669	0	0	2	0	0	0	0	- 2
Utah: Salt Lake City	130, 948	18	3	4	0	0	2	10	ł
Nevada; Reno	12,665	0	0	0	1 0	0	1 0	ol e	1 6

² No estimate made.

City reports for week ended April 10, 1926-Continued

#Modern manufacture (Medical Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication C			1		Diphi	ther	ia		Influ	enz	a			
Division, State, a city	nd	Populatio July 1, 1925, estimate	cas	ox, es Ca es ed ma	ses, sti- ated sect- icy	ī	ises e- rted	1	ases re- erted	r	aths e- rted	Mea- sles. cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
PACIFIC														
Washington: Seattle		(1) 108, 89 104, 45 282, 38	55	31 0 2 37	4 3 1		3 0 1 5		0 0 0		0 2	58 0 2 25	43 0 0 17	5
Los Angeles Sacramento San Francisco .		(1) 72, 20 557, 58	50 10	48 3 54	36 1 21		33 4 10		9 1 2		1 1	11 0 74	12 6 6	22 6 9
•	Sear	let fever		Smallp	ox		Tub	e1 -	7	Гур	hord :	lever	Whoop-	
Division, State, and city	Cases esti- mate expect ancy	d re-		Cases re-	Dea re por	٠.	culd sis deat re- port	hs	mate	. ' ( d) t-, p	uses re- orted	Deaths re- ported	ough,	Deaths, all causes
NEW ENGLAND		-			-			-		-j-				
Maine: Portland New Hampshire:	3		0	•		0		2	C		1	0	2	28
Concord Nashua Vermont:	1 2	5	0	0	ļ •	0		0	Č		0	0	0	9 8
Burlington Massachusetts	1 0	0 3	0	0		0		0	6		0	0	0	5 6
Boston Fall River Springfield Worcester Rhode Island:	63 3 6 11	78 0 2 8	1 0 0 0	0 0 0 0		0 0 0		2 3 2 1	1 1 0 0		1 0 0 0	0 0 0	108 6 12 7	304 52 48
Pawtucket Providence Connecticut:	1 9	0 6	0	0		0		2	0		0	0	3 7	39 104
Bridgeport Hartford New Haven	7 5 10	23 3 9	0	0 0 0		0		5 1 3	1 0 0	1	0 0 1	0 0 0	2 7 5	62 53 40
MIDDLE ATLANTIC  New York: Buffulo New York Rochester Syracuse	21 200 17 15	8 171 14 6	0	0 0 0		0 0 0		293	0 9 0 1		0500	1 4 0	26 50 16	207 1, 934 95
New Jersey: Camden Newark	4 25	12 25	0	0		0		2	0		0 2	0	15 0	45 33
Trenton Pennsylvania: Philadelphia	-3 75	60	o 1	ŏ		ŏ	46	1	0 3		3	0	8 0 38	148 57 683
Pittsburgh Reading	22 4	12 12	0	0		0	13	5	0		ů	0	75 5	298 45
EAST NORTH CENTRAL			-											
Ohio: Cincinnati Cleveland Columbus Toledo	13 23 8 15	20 90 25 12	2 1 2 5	1 0 5 0		000	12 22 2	3	0 1 0 0		1 1 0 0	0 0 0	24 91 1 22	205 291 102 102

¹ Pulmonary tuberculosis only.

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City reports for week ended April 10, 1926-Continued

	Scarle	fever	-\T			Tuber-	Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases. esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	re-	Deaths re- ported	culo- sis, deaths re- ported	mated	Cases re- ported	Deaths re- ported	ing cough, cases 1e- ported	Deaths, all causes
EAST NORTH CENTRAL—contd.						1					
Indiana: Fort Wayne Indianapolis South Bend Terre Haute Illinois:	10 4 3	8 13 4 5	2 5 1 1	0 18 1		0 11 0 1	0 0 0 0	0 0 0	0 0 0 0	3 57 5 0	35 126 15 18
Chicago	119 2 1	121 3 6	3 0 0	0 0 6	0 0 0	70 1 2	2 0 1	1 3 0	1 0 0	53 7 10	819 20 36
Michigan: Detroit Flint Grand Rapids	84 6 8	107 13 35	2 1 1	0 0 0	0 0 0	27 1 1	2 1 1	1 0 0	0 0 0	38 21 42	450 35 53
Wiseonsin: Kenosha Madison Milwaukee Racine Superior	3 4 27 3 2	2 4 25 1 7	1 1 4 2 3	000	0 0 0 0	0 0 14 2 1	0 0 1 0	0 0 1 0 0	0 0 0 0	0 0 33 29 0	11 18 161 18 8
WEST NORTH CENTRAL Minnesota:											
Duluth Minneapolis St. Paul Iowa:	5 30 28	25 80 45	2 9 5	0 1 0	0	1 5 5	0 1 1	0 1	0 0	10 10 33	18 125 67
Davenport Des Moines Sioux City Waterloo	2 7 2 2	7 1 8 2	3 3 1 0	0 0 9 1			0 0	0 0 0		0 0 2	
Missouri: Kansas City.: St. Joseph St. Louis	12 3 35	20 5 190	2 1 4	0 0 6	0	9	0 0 2	0 1 1	0 0 1	22 3 34	129 27 295
North Dakota: Fargo Grand Forks	2 0	4 0	0	0	0	0	0	0	0	. 1	8
South Dakota: Aberdeen Sioux Falls Nebraska:	1 2	2 2	0	0	ō	0	0	. 0	0	7 0	7
Lincoln Omaha Kansas:	3	34 24	7	8 0	. 0	3 0	0 0	0	0	3 2	14 67
Topeka Wichita SOUTH ATLANTIC	3	4	3	ő	ő	2	ő	ő	Ŏ	9	33
Delaware: Wilmington Maryland:	. 3	4	0	e	0	2	1	0	0	1	39
Baltimore Cumberland Federick District of Col.:	36 0 1	30 0 0	0 0	0	0	18 0 0	0 0	0 0	0	1	1
Washington Virginia: Lynchburg	24	24	0	0	0	14	0	0	0		10
Norfolk Richmond Roanoke West Virginia:	1 2 0	6 3 1	1 1	0	0	0 4 1	0 0	0	}	2	60 22
West Virginia: Charleston Huntington Wheeling	0 1 2	0 1 1	0 1 0	0 0 2	0	2	001	0	0	(	20
North Carolina: Raleigh Wilmington Winston-Salen	0 0 1	0 0 3	1 1 5	1 0 0	0	1	1	. 0	(	) ] ]	

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City reports for week ended April 10, 1926-Continued

	Scarle	fever	Smallpox			Tuter-	Ту	phoid s	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- moted expect- ancy	Cuses 10- ported	Deaths re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deuths, all causes
SOUTH ATLANTIC-											
South Carolina: Charleston Columbia Greenville	0	1 0 0	0 1 1	0 1 2	0 0 0	2 0 0	0 0	0 0 0	0 0 0	0 2 8	27 5
Georgia: Atlanta Brunswick Savannah Florida:	0 0	2 0 0	3 0 0	0 1 1	0	5 0 3	1 0 0	1 0 0	0 0 0	0 0 2	78 5 34
St. Petersburg. Tampa	0	0	1 0	28	0	0 2	1 1	0	0	ō	19 43
EAST SOUTH CENTRAL											A CALL
Kentucky: Covington Louisville Tennessee:	2 5	9	0 1	0	0	0	1	0	0	ō	44 131
Memphis Nashville	4	16 2	3 2	10 1	0	5 12	1 0	0	0	3	85 60
Alabama: Birmingham Mobile Montgomery.	- 0	4 0 1	9 1 0	5 0 1	0 0	3 1 0	1 0 0	2 0 0	0	13 0 0	88 26 31
WEST SOUTH CEN- TRAL					1						1
Arkansas: Fort Smith Little Rock	1	0	0	0	0	1	0	0	ō	1 4	
Louisiana: New Orleans. Shreveport	5 0	20 0	3 3	· 4	0	13 4	2 0	0	0	2 3	154 31
Oklahoma: Oklahoma Cit; Texas:	{	i	1	0	0	1	1	1	0	1	26
Dallas Galveston Houston San Antonio	_ 1	2 3 2 0	1 1	8 7 12 0	0 0	2 1 5 12	1 0 0 1	30	0 0 3 0	17 0 0 1	49 16 54 66
MOUNTAIN Montana: Billings.	- 0	1 1	1	0	0	0	0	O	U	2	1 8
Great Falls Helena Missoula Idaho:	. 1	0	1 0	0	0 0	0 0	. 0	0 0	0	0 0	8 7 6 3
Boise Colorado:	- 1	0	ŕ	2	0	0	0	0	0	0	3
Denver Pueblo New Mexico:	- 11	2		0	0		O i	0	0	65 1	74 6
Albuquerque. Arizona:	1		į	1	0	1	0	0	0	9	. 19
Phoenix Utah: Salt Lake City	. 3	1	1	1	0		0	0	0	51	13
Nevada: Reno	- 0	1	1	Į	1	}		0	0	0	2
PACIFIC Washington:	.						-				
Seattle Spokane Tacoma	9 4 2		7	0		0	0 0	0 0	0	) () 11	26
Oregon: Portland California:	7	1	1	1	1	1		0	0	2	79
Les Angeles Sacramento San Francisco		. 1	. 0	4	25 0 1	2	ō	2 2 1	0	203	270 38 143

City reports for week ended April 10, 1926-Continued

	Cereb mer	orospinal ungitis	Let ence	hargie phalitis	Pe	llagru	Polion tile	yelitis	(IIIfan- rsis)
Division, State, and city	Cases	Deaths	Cases	Deaths	i		Cases,	Cases	Deaths
NEW ENGLAND								!	
Massachusetts: Boston	1	6	1	0	0	0	0		0
MIDDLE ATLANTIC	1	U		U	Ü	, 0		1	U
Nam Vorb.	İ								-
New YorkRochester	8	7	9	3 0	0	0		0	1
New Jersey: Newark	•	0		-		0	_		
Pennsylvania:			1	0	0			0	0
Philadelphia	U	0	2	2	0	0	Ü	0	1
EAST NORTH CENTRAL Illinois:									
Chicago	1	1	Ü	0	U	0	Ø	0	0
Michigan Detroit	3	· ·	Ü	U	Ú	o i	0	0	0
WEST NORTH CENTRAL		-							Ĭ
Minnesota:									
Duluth Minneapolis	1 0	0	0 U	6 1	Û	0 U	0	0	0
Nebraska: Omaha	0	0	Ú	0	0	ı,	0	1	C
SOUTH ATLANTIC		-			-	,		-	
Maryland. Baltimore	0	- 0	1	0	0	0	0	0	1
South Carolina: Charleston	0	-		0	0	2	-		0
Georgia:	1	0	Ü	-			0	0	-
Atlanta	0	0	U	0	0	1	U	0	0
EAST SOUTH CENTRAL Kentucky:									
Louisville	0	1	0	0	0	0	Û	0	0
Alabama.  Birmingham	0	0	0	0	0	U	U	1	1
WEST SOUTH CENTRAL									
Louisiana:				٥	0		0		n
Shreveport	0	0	0	U	U	1	U	0	U
MOUNTAIN Montana:									1
Missoula	1	1	0	0	0	0	0	0	0
PACIFIC									
Washington: Tacoma	1	0	0	0	0	0	0	0	0
Oregon: Portland	1	1	0	0	0	0	0	1	0
California:	1			,	_				1
Los Angeles San Francisco	1	0	1	0	0	0	0 U	0	1 0
	<u> </u>					I	1	I	

The following table gives the rates per 100,000 population for 103 cities for the five-week period ended April 10, 1926, compared with those for a like period ended April 11, 1925. The population figures used in computing the rates are approximate estimates as of July 1, 1925 and 1926, respectively, authoritative figures for many of the cities not being available. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and more

than 29.750,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, March 7 to April 10, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925 1 DIPHTHERIA CASE RATES

DIPHTHERIA CASE RATES											
					Week e	nded-					
	Mar. 14, 1925	Mar 13, 1926	Mar. 21, 1925	Mar 20, 1926	Mar 28, 1925	Mar. 27, 1926	Apr. 4, 1925	Apr. 3, 1926	Apr. 11, 1925	Apr. 10, 1926	
103 cities	162	° 114	161	3 120	4 162	s 131	170	² 126	152	* 117	
New England Middle Atlanto East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	37 150	78 112 • 107 214 86 3 28 103 109 148	139	128 125 98 144 69 3 28 103 73 283	115 230 104 239 90 53 114 129 4 170	139 142 101 146 7 62 3 89 155 255 240	165 240 86 213 77 21 79 120 356	80 145 4 112 156 96 3 61 60 146 202	161 219 91 219 69 32 101 102 163	125 125 88 200 86 3 121 60 118 137	
		MEA	SLES	CASE :	RATES						
103 cities	433	2 1.693	487	³ 1,786	4 489	⁸ 1,837	537	1,695	510	3 1, 784	
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mest South Central Mountain Pacific	135 11 84 740 105	1,969 1,713 6 2,132 1,637 2,267 3 1,499 39 337 326	700 595 726 90 179 63 40 555 180	1,725 1,855 1,991 1,872 2,795 2,408 43 328 321	747 86 129 32 9 37 4 144	1,347 1,835 2,088 2,306 2,750 3,096 125 310 453	923 731 685 74 198 63 84 213 199	1, 463 1, 847 1, 503 2, 391 2, 671 3,063 43 555 248	975 677 658 56 196 32 48 55 229	1, 572 1, 769 1, 570 3, 240 2, 652 23, 218 237 419 391	
103 cities	1	2 303	411	3 301	11	6 325	394	2 296	353	3 274	
			!!	-	.,	-		-			
New England Middle Atlantic East North Central West North Central South Aflantic East South Central West South Central Mountain Pacific	207 326 101 194	\$93 150 112 218	525 416 460 768 138 263 128 416 207	404 202 340 800 158 2 154 138 246 280	582 404 449 731 157 263 97 240 211		515 434 412 713 165 242 48 268 182	392 210 6 331 774 173 231 86 140 251	510 358 391 627 144 257 84 250 166	319 176 330 833 147 2 176 116 100 156	
	******	SMAI	LLPOX	CASE	RATE	es		· · · · · · · · · · · · · · · · · · ·		-	
103 citles	. 59	2 40	<b>C1</b>	1 36	4 56	é 38	55	2 42	49	* 33	
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	55 37 121 56 410 70	\$ 19 67 49 2 72 142 18	98 54 593 101 65 202			0 0 10 57 7 96 3 61 142 27 210	12 21 22 84 40 378 44 18 243	0 0 6 17 46 41 3 105 90 55 348	2 10 21 94 40 525 48 18 141	0 0 18 51 68 94 133 27	

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1925 and 1926, respectively.

2 Mactison, Wis., and Covington, Ky., not included.

3 Govington, Ky., not included.

4 Spokane, Wash., not included.

5 Norfelk, Va., and Covington, Ky., not included.

6 Mactison, Wis., not included.

7 Norfelk, Va., not included.

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Summary of weekly reports from citics, March 7 to April 10, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925—Continued.

#### TYPHOID FEVER CASE RATES

·					Week e	ended—				
	Mar. 14, 1925	Mer. 13, 1926	Μαι. 21, 1925	Mar. 20, 1928	Mar. 28, 1925	Mar. 27, 1926	Apr. 4, 1925	Apr. 3, 1926	Apr 11, 1925	Apr. 10, 1926
103 cities	9	28	11	ه 6	+ 10	18	8	2 10	9	8 7
New England. Middle Atlantic. East North Central West North Central South Atlantic. East South Central West South Central West South Central West South Central Mountain Pacific.	5 3 10 23 32 26 18	64	29 8 6 8 21 42 22 0 0	21 22 22 29	3 6 12 53 40	0 10 4 2 7 16 7 17 9 27 13	5 4 3 2 29 16 31 0 19	7 8 8 8 17 333 34 36 31	2 9 6 2 19 16 35 18	9 5 3 10 6 11 17 18 13
	I	NFLU	ENZA 1	DEATI	RAT	ES	<u> </u>			·
96 cities	33	671	40	76	31	7 97	33	6 89	26	74
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	24 31 32 31 84 102 46	24 105 6 32 35 77 197 104 146 21	29 29 46 40 50 110 73 46 11	45 95 65 31 51 223 156 40 18	22 38 44 12 79	69 111 104 38 7 82 254 123 64 14	34 21 36 38 27 63 34 176 25	109 100 6 110 38 58 99 109 27 21	31 16 25 36 25 68 44 83 11	83 76 81 31 58 239 71 46
4	P	NEUM	ONIA	DEAT	н RAT	ES				
96 cities	214	6 325	208	372	197	7 372	197	6 335	194	277
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	213 226 169 232 336 169 203	217 460 6 289 146 301 339 255 300 92	204 216 208 167 275 263 169 166	357 503 355 144 349 400 279 200 99	211 198 201 161 232 247 160 194 142	351 159 7 330 477 175 191	242 214 171 186 219 247 160 157	432 6 321 159 289 358 198 155	204 189 178 220 223 315 160 259 105	359 338 246 184 235 431 170 137

- Madison, Wis., and Covington, Ky., not included.
  Covington, Ky., not included.
  Spokane, Wash., not included.
  Norfolk Va., and Covington, Ky., not included.
  Madison, Wis., not included.
  Norfolk, Va., and included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively

•	Group of cities	Number of cities	Number of cities	Aggregate of cities cases	population reporting	Aggregate of cities deaths	population reporting
,	Citoup of Cities	reporting cases	reporting deaths	1925	1926	1925	1926
•	Total	103	96	29, 944, 996	30, 473, 129	29, 251, 658	29, 764, 201
1	New England Middle Atlantic. East North Central. West North Central. South Atlantic. East South Central. West South Central. West South Central. Pacific	12 10 16 14 21 7 8 9	12 10 16 11 21 7 6 9	2, 176, 124 10, 346, 970 7, 481, 656 2, 594, 962 2, 716, 070 993, 103 1, 184, 057 563, 912 1, 888, 142	2, 206, 124 10, 47d, 970 7, 655, 436 2, 634, 662 2, 776, 070 1, 004, 953 1, 212, 057 572, 773 1, 934, 084	2, 176. 124 10, 346, 970 7, 481, 656 2, 461, 380 2, 716, 070 993, 103 1, 078, 198 563, 912 1, 434, 245	2, 206, 124 10, 476, 970 7, 655, 436 2, 499, 036 2, 776, 070 1, 004, 935 1, 103, 695 572, 778 1, 469, 144

### FOREIGN AND INSULAR

### THE FAR EAST

Report for week ended April 3, 1926.—The following report for the week ended April 3, 1926, was transmitted by the far eastern bureau of the health section of the League of Nations, secretariat, located at Singapore, to the headquarters at Geneva:

	Pla	gue	Cho	lera		ull- ox	1	Pla	gue	Cho	lera	Sm	
Port	Cases	Deaths	Cases	Deaths	Cases	Dearhs	Port	Cases	Deaths	Cases	Deaths	Cases	Deaths
Calcutta Bombay Madras Rangoon Karachi Negapatam Colombo Basra Singapore Port Sweitenham Penang Betavia Surabaya Bamarang Cherilon Belawan Deli Palembang Sabang (Rhio) Makassar Menada Banjermassin Balik-Papan Tarakan Sandakan (North Borneo) Kuching (Sasawak) Timor Dilly Manila Ilodo Cebu Zamboanga Bangkok Saigon and Cholon Haipbeng Tourane Hongkong Shanghai Amoy Nagasaki Yokohama Simonogeki Moji Kobe		072000000000000000000000000000000000000	0	00000	32 77 18 00 00 00 00 00 00 00 00 00 00 00 00 00	16 15 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Osaka Niigata Tsuruga Hakodale Keelung (Formosa) Fusan Chemulpo Dairen Adelaide Brisbane Fremantle Melbourne Sydney Rockhampton Townsville Port Dawin Broome Port Moresby Auckland Wellington Christchurch Invercargiil Noumea (New Caledonia) Henolulu Suga Tor (Quarantine Station) Alexandria Port Sudan Mombasa (Kenya) Massowah Djihuti Berbera Mozambarue Lourenco Marques Durban East London Port Elizabeth Cape Town Port Iouis (Mauritius) Seychelles				000000000000000000000000000000000000000	120000020000000000000000000000000000000	

#### BAHAMA ISLANDS

Quarantine against vessels from Florida on account of smallpox.—On March 25, 1926, an order in council was issued by the Bahamas Government, declaring all ports of Florida infected, setting forth preventive measures to be followed, and repealing the order in council dated January 22, 1926. The order contains the following provisions:

- (a) All vessels arriving at any port or place in the colony from Florida are to be quarantined at the quarantine station, Nassau, for 21 days and all vessels which have touched at any port or place in Florida within 21 days of their arrival at any port or place in the colony are to be quarantined at the quarantine station aforesaid for such number of days as will complete 21 days from Florida; that is, there shall be no communication between the said vessels and the shore, and only the port officials and health officers will be allowed to go on board.
- (b) All persons coming from Florida either directly or indirectly are to produce medical certificates of recent vaccination, or otherwise satisfy the health officer that have been recently vaccinated.
  - (c) All mails and passengers' baggage from Florida are to be furnigated. This order shall remain in force for 16 weeks from the date hereof.

The order in council dated the 22d day of January, 1926, prohibiting any communication by sea or air with the State of Florida is hereby repealed.

#### CANADA

Communicable diseases—Week ended April 10, 1926.—The Canadian Minister of Health reports certain communicable diseases in six Provinces of Canada for the week ended April 10, 1926, as follows:

Disease	Nova Scotia	New Bruns- wick	Ontario	Mani- toba	Sas- katche- wan	Alberta	Total
Cerebrospinal fever Influenza Smallpox Typhoid fever	85 5	4	21 13	1 1 4	5	3	1 86 33 22

Communicable diseases—Ontario—March, 1926 (comparative).— During the month of March, 1926, communicable diseases were reported in the Province of Ontario as follows:

Diversi	M arci	1, 1920	Marci	1, 1925
Disease	Cases	Deaths	Cases	Deaths
Cerebrospinal meningitis.		7	2	3
Chicken pox Diphtheria German mensles	640	9	398 265 27	15
Gonorrhea. Influenza	132	44	110	56
Lethargic encephalitis Measles Mumps		5	1, 663 1, 281	7
Pneumonia Poliomyelitis		237		230 1
Scarlet fever Septic sore throat	2	12	681 7	8 2
Smallpox Syphilis	45 103	1	16 101	
Tuberculosis Typhoid fever Whooping cough	144 33 310	88 1 7	159 72 464	80 8 13
	1	<u> </u>	1	

Smallpox.—The occurrence of smallpox was distributed in 16 localities, with the greatest number of cases reported at Kitchener, viz, 14. At Toronto 1, Marmora village 1, Belleville 1, Kingston 1, Guelph 2, Eganville 1, Bradford 1, Sarnia 3, Blind River 1, Sudbury 1, Percy Township 1, Wilmot Township 3, Marmora Township 1, Sydney Township 1, and King Township 12. One death was reported at Kitchener.

### CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

Reports Received During Week Ended April 30, 1926 1
CHOLERA

Place	Date	Cases	Deaths	Remarks				
India: Calcutta Madras Raugoon		48 30 1	45 16 1					
Philippine Islands: Rizal Province	Jan. 17-30	9	3					
Bangkok	Feb. 14-20	26	17					
1	PLA	GUE						
Belgium:				-				
Vilvorde China:	1		1					
Nanking Egypt: Alexandria	1		1	Present. Bubonic.				
Greece:		_	1					
India: Madras Rangovn	Feb. 14-20	100 12	83 14					
Iraq: Bagdad	t .	;	n					
Java. Province— Batavia	Fub 20-Mor 5	73	71					
Siam: Bangkok	1 '	ì	1					
SMALLPOX								
Algeria:	Mar. 11-20	8						
Canada: Manitoba— Winnipeg	4 mr. 4-10	1	1					
China:	Mar. 14-29	1	5					
Chungking Manchuria—	Feb. 28-Mar. 20			Present.				
An-shan Changehun Fushun	do	1		1				
Harbin	Mar 5-11	9		0				
Liao-yang Supingkai Nanking	Mar 7-27	1		Do.				
Tientsin.	Feb. 21-27	1						

I From medical officers of the Public Health Service, American consuls, and other sources.

### Reports Received During Week Ended April 30, 1926 -Continued

### SMALLPOX-Continued

Place	Date	C·1ses	Deaths	Remarks				
Chosen:								
Seishin Great Britain:	Feb 1-28	13	25					
England and Wales	Mar. 28-Apr. 3	130						
Greece:	Mar. 1-31	37	3					
India:			i					
Calcutta Bombay	Feb. 20-Mar 6	61 59	37 37					
Karachi	Mor 7-13	5	2					
Madras	Mar 7-20	42	3					
Rangoon	Eab 90 Man 2	8	3					
Indo-China:	Feb. 28-Mar. 0	٥	,					
Salgon	Feb. 8-25	3		Constant Properties and Constant Properties and Constant				
paraon	Feb. 8-25	ស		Including 100 square kilometers				
<b>v</b>				of surrounding country.				
Iraq:	T-1 01 07							
Bagdad Basra	Feb 21-27	4	3					
_ Basra	Feb. 14-2/	12	10					
Jamaica	Mar. 28-Apr. 3	7		Reported as alustr <b>im.</b>				
Java:								
Province—								
Batavia	Feb. 20-Mar 5	5						
Mexico:	i .		1					
Saltillo	Apr 4-10	1						
San Lans Potosi	Mar. 28-Apr. 10		14					
Torreou	Mar. 1-31		11					
San Lins Potosi Torreon Vera Cruz	Mar. 14-Apr. 3	5	1					
Stam:	i	i	1					
Bangkok	Feb. 14-20	13	8					
Spain.		1	l					
Valencia	Mar. 28-Apr. 3	1		i				
Straite Sattlaments	1	ì						
Penang	do		1 1	j				
Sumstra:	)	ì	-	<u> </u>				
Medan	Feb. 14-20	1	l	ļ				
	1	<u> </u>	<u> </u>	1 1				
TYPHUS FEVER								
	1	<del></del> _	T	1				
Algeria:	1	1		1				
Algiers	Mar. 11-20	1	1	ļ				
Greece:	1		1					
Athens	Mar. 1-31	7	2	\$ \$				
Palestine:	1	1	1	1				
Haifa.	Mar. 16-22	1		1				
Ramleh	do	î		i i				
Union of South Africa:		1 1		1				
Notal—	l	1	į.	1				
Durban	Feb. 28-Mar. 6	1		1				

### Reports Received from December 26, 1925, to April 23, 1926 ¹ CHOLERA

Place	Date	Cases	Deaths	Remarks
Chosen	October - Novem- ber, 1925. Dec. 1-31	12 880	5 712	Oct. 18, 1925, to Jan. 2, 1926;
Calcutta Do	Nov. 1-28 Dec. 6-26 Dec. 27-Jan. 16	101	89 54 41	Cases, 21,316; deaths, 12,371. Jan. 3-Feb. 6, 1926; Cases, 17,858; deaths, 10,050.
Do	Jan. 24-Mar. 6 Nov. 15-Jan. 2 Jan. 3-Mar. 6 Nov. 8-Dec. 5 Jan. 24-Feb. 13	207 174 93 4 5	179 70 60 4 3	21,770, Watto, 20,000

¹ From medical officers of the Public Health Service, American consuls, and other sources.

### Reports Received from December 26, 1925, to April 23, 1926—Continued

### CHOLERA-Continued

				· ·
Place	Date	Cases	Deaths	Remarks •
Indo-China				September, 1925: Cases, 9 deaths
Province-				5. September, 1924; Cases, 7
Annam	Sept. 1-30	2	2	deaths, 4. (European cases, 2.
Cochin China	do	5	3	
Saigon	Jan. 4-17	2	2	Including 100 square kilometer
TonkinJapan Do	September, 1925	2		of surrounding country.
apan	Aug. 30-Oct. 17	409		
D0	Oct. 25-Dec. 26	113		
Philippine Islands	Nov. 9-Jan. 3	15	10	
Do Province—	Jan. 4-Mar. 6	3	27	
Bataan	Nov. 30-Dec. 26	29	25	
Do	Jan 2-16	1	7	
Batangas Bohoi Bulacan Do	Jan. 21-Feb. 13	7	7	
Bohol	Jan. 23-30	1	1	
Bulacan	Oct. 18-Nov. 7	92	64	
Do	Nov. 23-Dec. 31	200	88	1
Do	Jan 2-30	6	6	
Lemma	Nov 23-Dec 26	18	14	
Do	Nov. 23-Dec. 26 Jan. 24-Feb. 6	5	6	'
Lorie	Jan. 3-9	2	ž	
Mindoro	Dag 20-31	35	30	
Minera Polis	Dec. 20-31 Nov 30-Dec. 13	7	5	
Laguna	Nov. 1-7.	í		-1
tambanga	Nov. 23-Dec. 31	113	1 85	* *
3/0	1 14031 20 1700 1700 1700			
Do	Jan. 2-reb. 20	38	34	
Rizal	Sept. 27-Nov. 21	75	21	,
		14	11	
Do Romblon	Jan 3-16 Dec 7-13	76	26	,
Rombion	Dec 7-13	23	12	[
Russia	May-June	7		1
Do	July-August	4		
Siam:	1			
Bangkok	Uct. 4-Nov. 14	108	68	1
Do	Nov 22-Dec. 26 Dec. 27-Feb. 13	270	149	•
Do	' Dec. 27-Feb. 13	187	125	ł .
			,	1
On vessel: Steamship	Oct. 3	9		Arrived at Bangkok, Siam Cases in coolie passengers.
On vessel:	Oct. 3			Arrived at Bangkok, Siam Cases in coolie passengers.
On vessel: Steamship.	Oct. 3	9		Cases in coolie passengers.
On vessel: Steamship	Oct. 3	GUE		Cases in coolie passengers.
On vessel: Steamship.  Argentine. Buenos Aires.	Oct. 3	9		Cases in coole passengers.  Jan. 24-30, 1926 6 cases. occur ring in interior Provinces
On vessel: Steamship	PLA Jun. 21-30	GUE		Cases in coolie passengers.
On vessel: Steamship.  Argentine	Jun. 21-30 Jan. 17-30	GUE	2	Cases in coole passengers.  Jan. 24-30, 1926 6 cases, occurring in interior Provinces Salta and Santa Fe.
On vessel: Steamship	PLA Jun. 21-30	GUE		Cases in coole passengers.  Jan. 24-30, 1926 6 cases, occur ring in interior Provinces Salta and Santa Fe.  In outskirts of city of Pon
Argentine	Jun. 21-30 Jan. 17-30 Jan. 17-30 Feb. 7-13	GUE	2	Cases in coole passengers.  Jan. 24-30, 1926 6 cases, occurring in interior Provinces Salta and Santa Fe.
On vessel: Steamship.  Argentine. Buenos Aires. Azores: St. Michaels. Do. Brazil: Bahia.	Jun. 21-30 Jan. 17-30 Jan. 17-30 Feb. 7-13	GUE	2	Cases in coole passengers.  Jan. 24-30, 1926 6 cases, occur ring in interior Provinces Salta and Santa Fe.  In outskirts of city of Pon
Argentine	Jun. 24-30 Jun. 17-30 Jun. 17-30 Feb. 7-13 Nov. 8-Dec. 28 Dec. 27-Jun. 30	GUE	2	Cases in coole passengers.  Jan. 24-30, 1926 6 cases, occur ring in interior Provinces Salta and Santa Fe.  In outskirts of city of Pon
Argentine Buenos Aires Azores: St. Michaels Do Bahia. Do Santos	Ji.n. 21-30 Jan. 17-30 Feb. 7-13 Nov. 8-Dec. 28 Dec. 27-Jan. 30 Dec. 8-21	1 4 1 3 4 4	2	Cases in coole passengers.  Jan. 24-30, 1926 ft cases, occurring in interior Provinces Salta and Santa Fe.  In outskirts of city of Pon
Argentine Buenos Aires Azores: St. Michaels Do Brazil: Bahis Do Santos San Paulo British East Africa:	Jun. 24-30 Jun. 17-30 Jun. 17-30 Feb. 7-13 Nov. 8-Dec. 28 Dec. 27-Jun. 30	GUE	2	Cases in coole passengers.  Jan. 24-30, 1926 6 cases, occur ring in interior Provinces Salta and Santa Fe.  In outskirts of city of Pon
On vessel: Steamship.  Argentine Buenos Aires Azores: St. Michaels Do. Brazil: Bahia Do. Santos Santos Sao Faulo British East Africa: Kenya—	Jun. 21-30 Jun. 17-30 Jun. 17-30 Feb. 7-13 Nov. 8-Dec. 28 Dec. 27-Jun. 30 Dec. 8-21 Reported Mar. 25	1 4 1 3 4 4	2 1 2 2 1	Cases in coole passengers.  Jan. 24-30, 1926 6 cases, occur ring in interior Provinces Salta and Santa Fe.  In outskirts of city of Pon
Argentine	Jun. 21-30 Jun. 17-30 Jun. 17-30 Feb. 7-13 Nov. 8-Dec. 28 Dec. 27-Jun. 30 Dec. 8-21 Reported Mar. 25 Nov. 22-Dec. 5	1 4 1 3 4 4 1 1	2 1 2 2 2 1	Cases in coole passengers.  Jan. 24-30, 1926 6 cases, occur ring in interior Provinces Salta and Santa Fe.  In outskirts of city of Pon
Argentine Buenos Aires Azores: St. Michaels Brazil; Bahia Do Santos San Paulo British East Africa: Kenya— Kisumu Do Do Do	Jun. 21-30 Jun. 17-30 Feb. 7-13 Nov. 8-Dec. 28 Dec. 27-Jan. 30 Dec. 8-21 Reported Mar. 25 Nov. 22-Dec. 5 Jan. 31-Feb. 27	1 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 1 4 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4	2 1 2 2 2 1	Cases in coole passengers.  Jan. 24-30, 1926 ft cases, occurring in interior Provinces Salta and Santa Fe.  In outskirts of city of Pon
Argentine	Jun. 21-30 Jun. 17-30 Jun. 17-30 Feb. 7-13 Nov. 8-Dec. 28 Dec. 27-Jun. 30 Dec. 8-21 Reported Mar. 25 Nov. 22-Dec. 5	1 4 1 3 4 4 1 1	2 1 2 2 2 1	Cases in coole passengers.  Jan. 24-30, 1926 6 cases, occur ring in interior Provinces Salta and Santa Fe.  In outskirts of city of Pon
On vessel: Steamship.  Argentine. Buenos Aires. Azores: St. Michaels. Do. Brazil: Bahia. Do. Santos. San Paulo. Briish East Africa: Kenya- Kisumu. Do. Uganda Protectorate. Canary Islands:	Jun. 21-30 Jan. 17-30 Feb. 7-13 Nov. 8-Dec. 28 Dec. 27-Jan. 30 Dec. 8-21 Reported Mar. 25 Nov. 22-Dec. 5. Jan. 31-Feb. 27 Sept. 1-Dec. 31	1 4 1 4 468	2 1 2 2 2 1 1 2 2 3 426	Cases in coole passengers.  Jan. 24-30, 1926 6 cases, occur ring in interior Provinces Salta and Santa Fe.  In outskirts of city of Pon
Argentine	Jun. 24-30 Jun. 17-30 Feb. 7-13 Nov. 8-Dec. 28 Dec. 27-Jan. 30 Dec. 8-21 Reported Mar. 25 Nov. 22-Dec. 5 Jan. 31-Feb. 27 Sept. 1-Dec. 31	1 4 1 1 4 4 468 3	2 1 2 2 2 1	Cases in coole passengers.  Jan. 24-30, 1926 6 cases, occur ring in interior Provinces Salta and Santa Fe.  In outskirts of city of Pon
Argentine	Jun. 21-30 Jan. 17-30 Feb. 7-13 Nov. 8-Dec. 28 Dec. 27-Jan. 30 Dec. 8-21 Reported Mar. 25 Nov. 22-Dec. 5. Jan. 31-Feb. 27 Sept. 1-Dec. 31 Dec. 24	1 4 4 4 4 4 4 8 3 1 1	1 2 2 2 1 1 2 2 3 426 2 2	Cases in coole passengers.  Jan. 24-30, 1926 6 cases, occur ring in interior Provinces Salta and Santa Fe.  In outskirts of city of Pon
Argentine	Jun. 24-30  Jun. 17-30  Feb. 7-13  Nov. 8-Dec. 28  Dec. 27-Jan. 30  Dec. 8-21  Reported Mar. 25  Nov. 22-Dec. 5  Jan. 31-Feb. 27  Sept. 1-Dec. 31  Dec. 24  do. Jan. 7	1 1 4 1 1 4 468 3 1 1 1 1 1	2 1 2 2 2 1 1 2 2 3 426	Cases in coole passengers.  Jan. 24-30, 1926 ft cases, occurring in interior Provinces Salta and Santa Fe.  In outskirts of city of Pon
Argentine Buenos Aires Azores: St. Michaels Do. Santos Sao Paulo British East Africa: Kenya- Kisumu Do. Uganda Protectorate Canary Islands: La Laguna. Las Palmas Do. Santa Cruz de Tenetiffe.	Jun. 21-30 Jun. 17-30 Feb. 7-13 Nov. 8-Dec. 28 Dec. 27-Jan. 30 Dec. 8-21 Reported Mar. 25 Nov. 22-Dec. 5 Jun. 31-Feb. 27 Sept. 1-Dec. 31 Dec. 24 do. Jun. 7 Dec. 18-27	1 4 1 1 4 4 4 4 4 4 6 8 1 1 1 3 3	1 2 2 2 1 1 2 2 3 426 2 2	Cases in coole passengers.  Jan. 24-30, 1926 ft cases, occurring in interior Provinces Salta and Santa Fe.  In outskirts of city of Pon
Argentine Buenos Aires Azores: St. Michaels Do. Brazil; Bahia Do. Santos Santos Santos Sas Paulo. British East Africa: Kenya— Kisumu Do. Uganda Protectorate Canary Islands: La Laguna Las Palmas Do. Santa Cruz de Tenetifie Do.	Jun. 24-30  Jun. 17-30  Feb. 7-13  Nov. 8-Dec. 28  Dec. 27-Jan. 30  Dec. 8-21  Reported Mar. 25  Nov. 22-Dec. 5  Jan. 31-Feb. 27  Sept. 1-Dec. 31  Dec. 24  do. Jan. 7	1 1 4 1 1 4 468 3 1 1 1 1 1	1 2 2 2 1 1 2 2 3 426 2 2	Cases in coole passengers.  Jan. 24-30, 1926 ft cases, occurring in interior Provinces Salta and Santa Fe.  In outskirts of city of Pon
Argentine	Jun. 21-30 Jun. 17-30 Feb. 7-13 Nov. 8-Dec. 28 Dec. 27-Jun. 30 Dec. 8-21 Reported Mar. 25 Nov. 22-Dec. 5 Jun. 31-Feb. 27 Sept. 1-Dec. 31 Dec. 24 Jun. 7 Dec. 18-27 Dec. 28-Feb. 1	1 4 1 3 4 4 4 4 4 4 6 8 3 1 1 1 3 3 3	2 2 2 2 1 2 3 426 2	Jan. 24-30, 1926 6 cases, occurring in interior Provinces Salta and Santa Fe.  In outskirts of city of Pon Delgada.
Argentine Buenos Aires Azores: St. Michaels Do. Brazil: Bahia Do. Santos Santos Santos Hiish East Africa: Kenya— Kisumu Do. Uganda Protectorate Canary Islands: La Laguna Las Palmas Do. Santo Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary Canary	Jun. 21-30 Jun. 17-30 Feb. 7-13 Nov. 8-Dec. 28 Dec. 27-Jan. 30 Dec. 8-21 Reported Mar. 25 Nov. 22-Dec. 5 Jun. 31-Feb. 27 Sept. 1-Dec. 31 Dec. 24 do. Jun. 7 Dec. 18-27	1 4 1 1 4 4 4 4 4 4 6 8 1 1 1 3 3	1 2 2 2 1 1 2 2 3 426 2 2	Cases in coole passengers.  Jan. 24-30, 1926 6 cases, occur ring in interior Provinces Salta and Santa Fe.  In outskirts of city of Pon
Argentine Buenos Aires Azores St. Michaels Do. Brazii; Bahia Do. Santos Sao Paulo British East Africu: Kenya- Kisunu Do. Uganda Protectorate Canary Islands: La Laguna Las Palmas Do. Santa Oruz de Tenetife Do. Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: Calebos: C	Jun. 21-30 Jun. 17-30 Feb. 7-13 Nov. 8-Dec. 28 Dec. 27-Jan. 30 Dec. 8-21 Reported Mar. 25 Nov. 22-Dec. 5 Jan. 31-Feb. 27 Sept. 1-Dec. 31 Dec. 24 Jun. 7 Dec. 18-27 Dec. 28-Feb. 1 Dec. 29-Feb. 2	1 4 1 4 4688 3 1 1 3 3 3 1 12	2 2 2 2 1 1 2 3 426 2 2 1	Cases in coole passengers.  Jan. 24-30, 1926 6 cases, occurring in interior Provinces Salta and Santa Fe.  In outskirts of city of Pont Delgada.  Netherlands East Indies.
Argentine Buenos Aires Azores: St. Michaels Do. Brazil: Bahia Do. Santos Sao Paulo British East Africa: Kenya- Kisumu Do. Uganda Protectorate Canary Islands: La Laguna Las Palmas Do. Santo Cruz de Teneriffe Do. Celebes: Makassar Coyloni Colombo	Jun. 21-30 Jun. 17-30 Feb. 7-13 Nov. 8-Dec. 28 Dec. 27-Jan. 30 Dec. 8-21 Reported Mar. 25 Nov. 22-Dec. 5 Jan. 31-Feb. 27 Sept. 1-Dec. 31 Dec. 24 Jun. 7 Dec. 18-27 Dec. 28-Feb. 1 Dec. 29-Feb. 2	1 4 1 4 4 4 4 4 4 4 8 3 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 1 2 2 2 1 1 426 2 1 1 1 1 2 2 3 1 1 1 2 2 3 1 1 1 1 2 2 3 1 1 1 1	Jan. 24-30, 1926 6 cases, occurring in interior Provinces of Salta and Santa Fe.  In outskirts of city of Pont Delgada.
Argentine Buenos Aires Azores St. Michaels Do. Brazil: Bahia Do. Santos Sao Paulo. British East Africa: Kenya- Kisumu Do. Uganda Protectorate Canary Islands: La Laguna Las Paimas Do. Santa Cruz de Teneriffe Do. Celebes: Celebes: Celombo. Colombo. Do.	Jun. 24-30  Jun. 17-30  Feb. 7-13  Nov. 8-Dec. 28  Dec. 27-Jan. 30  Dec. 8-21  Reported Mar. 25  Nov. 22-Dec. 5  Jan. 31-Feb. 27  Sept. 1-Dec. 31  Dec. 18-27  Dec. 18-27  Dec. 28-Feb. 1  Doc. 29-Feb. 2  Nov. 15-Dec. 5  Doc. 27-Jan. 16  Doc. 29-Feb. 2	1 4 1 4 4 4 4 8 3 3 1 1 1 3 3 3 2 2 2 3 2 2 2	2 2 2 2 1 1 2 3 426 2 2 1 1	Cases in coolie passengers.  Jan. 24-30, 1926 ff cases, occur ring in interior Provinces of Salta and Santa Fe.  In outskirts of city of Pont Delgada.  Netherlands East Indies.  1 plague rodent.
Argentine Buenos Aires Azores: St. Michaels Do. Brazil: Bahia Do. Santos Sao Paulo British East Africa: Kenya- Kisumu Do. Uganda Protectorate Canary Islands: La Laguna Las Palmas Do. Santa Cruz de Teneriffe Celebes: Makassar Ceyba: Colombo.	Jun. 21-30 Jun. 17-30 Feb. 7-13 Nov. 8-Dec. 28 Dec. 27-Jan. 30 Dec. 8-21 Reported Mar. 25 Nov. 22-Dec. 5 Jan. 31-Feb. 27 Sept. 1-Dec. 31 Dec. 24 Jun. 7 Dec. 18-27 Dec. 28-Feb. 1 Dec. 29-Feb. 2	1 4 1 4 4 4 4 4 4 4 8 3 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 1 2 2 2 1 1 426 2 1 1 1 1 2 2 3 1 1 1 2 2 3 1 1 1 1 2 2 3 1 1 1 1	Cases in coole passengers.  Jan. 24-30, 1926 ff cases, occurring in interior Provinces of Salta and Santa Fe.  In outskirts of city of Pont Delgada.  Netherlands East Indies.

# Reports Received from December 26, 1925, to April 23, 1926—Continued PLAGUE—Continued

Place	Date	Cases	Deaths	Remarks
Ecuador:				
Eloy Alfaro Guayaquil Do. Do.	Jan. 1-15	1		
Guayaquil	Nov. 1-Dec. 31	31	12	
Po	Jan. 1-31	34	14	Rats taken, Nov. 1-Dec 31, 1925,
ро	Mar. 1-15	9	4	49,370; rats found infected, 281.
`				Rats taken, Jan. 1-Mar. 15, 1926, 54,393; rats found infected, 477
Recieo (country estate)	do	1		
Egypt Alexandria Beni Suef Fayoum Province	Mar. 10	1		van. 1-15(c. 5. 1823. C. 1823, 193.
Beni Suef	Nov. 18	1	1	
Fayoum Province	Dec. 3-9	1	1	
Guardia Piovince	Mar. 9	1	1	
Minia ProvinceGreece.	Mar. 4	1	1	
Athens	Nov. 1-30	18	4	Including Puæus
Do	Jan. 1-31	14	3	Therease the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the training of the t
Herakleion	Feb. 4	1		On island of Crete.
Patras	Nov. 13-Dec. 12	4	1	
Hawan Territory	Feb. 2			1 plague-infected rodent found
Hawaii—	Mar. 19	1	1	near Hamakus Mill Co.
Kakuthaele Honakaa	Mar. 16	2	1	1 death suspected plague.
Paguilo		~		Jan. 29, 1926: Plague-infected rat
				found in vicinity
India				Oct. 18, 1925, to Jan. 2, 1926; Cases, 15,135, deaths, 10,677. Jan. 3-Feb. 6, 1926; Cases, 15,071;
Bombay Do Calcutta	Dec. 6-12	1	1	Cases, 15,135, deaths, 10,677.
100	Jan. 3-Feb. 20		8	Jan. 3-Feb. 6, 1926 Cases, 15,071;
Karachi	Nov. 1-Dec. 19	4	1	deaths, 10,160.
Do	Reb 21-Mar 6	3	3 3	
Do	Cel. 25-Nov. 7	75	41	
Do	Nov. 15-21	1 35	22	
Do	Dec. 20-26	108		İ
Do	Jan 3-9	135	83	
Do Rangoon	Jan. 17-Feb. 13	579 23	348	
Do	Oct. 25-Dec. 26 Dec. 27-Feb. 27	57	15 49	·
Indo-China	2000.00 100.2722			September, October, 1925: Cases,
Province-	1			25; deaths, 23.
Cambodia Cochin China	Sept. 1-30	111	11	
Cochin China	September - Octo-	11	12	
Iraq:	ber.	1	1	t t
Bagdad	Dec. 13-Jan. 2	7	3	1
Do	Jan. 10-Feb. 20	43	26	•
Java:	1	1		} .
Batavia	Oct 24-Nov. 6	94	39	Province.
Do	Nov. 14-Jan. 1 Jan. 2-Feb. 19 Sept. 27-Oct. 17	315 369	297	1
Cheribon	Sent 97-Oct 17	209	357 166	Į
Do			100	1
Do Djokjakarta Kediri	Jan. 3-Feb. 6 Oct. 20-Nov. 9 Dec. 7 Dec. 27-Jan. 16 Sept. 27-Oct. 17 Nov. 8-Dec. 26		8	
Dlokjakarta	Oct. 20-Nov. 9			
Kediri	Dec. 7			Do.
Koeningan	Dec. 27-Jan. 16		114 42	
Pekalongan Do	Nor 8-Dec 26		172	{
Renibang			1 172	Do.
Surabaya	Oct. 11-Dec. 26 Dec. 27-Jan. 9 Jan. 17-Feb. 13	59	59	1
Surabaya Do	Dec. 27-Jan. 9	16	16	
Do	Jan. 17-Feb. 13	12	12	
Tegal	Sept. 27-Oct. 17	6	- 6	†
Do	. 140 V. 5-Dec. 20		. 31	Now 1-December 1925 Clases
Province-				Nov. 1-December, 1925: Cases, 632; deaths, 593. Jan. 1-31, 1926: Cases, 334; deaths, 363.
Ambositra	Dec. 16-31	9	7	1926: Cases, 334; deaths, 303
DΛ	Tom 1-15	1 0	2	
Itasy	. Sept. 16-Oct. 31	20	20	
Do	. Nov. 16-Dec. 16	34	. 34	1
Itasy	. #2B. 1-15	29 49	29	,
			48	1
TauanariveDoDo	Sept. 16-Nov. 20	368		,
	Dog 18.91	152	143	1
1/0	. DOO: 10-01	258	227	

### Reports Received from December 26, 1925, to April 23, 1926-Continued

### PLAGUE-Continued

Huscho	anuary, February, 1926: Cases, 290; deaths, 111. out 60 miles north of Callao. n hospital. Some cases in Province. 2 or 15 cases reported unofficially.
Town	290; deaths, 111. out 60 miles north of Callao. n hospital. Some cases in Province. 2 or 15 cases reported unoffi- cially.
Tamatave 'port)   Sept. 16-30.   3   2   2   2   2   2   2   3   3   2   2	290; deaths, 111. out 60 miles north of Callao. n hospital. Some cases in Province. 2 or 15 cases reported unoffi- cially.
Tamatave 'port)   Sept. 16-30.   3   2   2   2   2   2   2   2   2   2	290; deaths, 111. out 60 miles north of Callao. n hospital. Some cases in Province. ince. 2 or 15 cases reported unofficially.
Do.   Oct. 16-Nov. 30.   9   9   9   10   10   10   10   10	290; deaths, 111. out 60 miles north of Callao. n hospital. Some cases in Province. ince. 2 or 15 cases reported unoffi- cially.
Tananarive   Sept. 16-30.   2   2   1   1   1   1   1   1   1   1	290; deaths, 111. out 60 miles north of Callao. n hospital. Some cases in Province. ince. 2 or 15 cases reported unoffi- cially.
Mauritius Island	290; deaths, 111. out 60 miles north of Callao. n hospital. Some cases in Province. ince. 2 or 15 cases reported unoffi- cially.
Mauritius Island	290; deaths, 111. out 60 miles north of Callao. n hospital. Some cases in Province. ince. 2 or 15 cases reported unoffi- cially.
Pamplemousses   Oct. 1-Nov. 30.   3   2   2   2   2   2   2   2   2   2	290; deaths, 111. out 60 miles north of Callao. n hospital. Some cases in Province. ince. 2 or 15 cases reported unoffi- cially.
Pamplemousses   Oct. 1-Nov. 30.   3   2   2   2   2   2   2   2   2   2	290; deaths, 111. out 60 miles north of Callao. n hospital. Some cases in Province. ince. 2 or 15 cases reported unoffi- cially.
Pamplemousses   Oct. 1-Nov. 30.   3   2   2   2   2   2   2   2   2   2	290; deaths, 111. out 60 miles north of Callao. n hospital. Some cases in Prov ince. 2 or 15 cases reported unoffi cially.
Port Louis	290; deaths, 111. out 60 miles north of Callao. n hospital. Some cases in Prov ince. 2 or 15 cases reported unoffi cially.
Persia:         Oct. 21-Nov. 21         12           Peru         Jan. 28         15         Percented           Huscho         Jan. 28         15         Percented           Lima         Jan. 1-31         20         In           Mollendo         do         12           Russia         May-June         67           Do         July-October         166           Senegal         September-Octo-45         25           Senegal         September-Octo-65         65         53           Bangkok         Nov. 15-28         3         3         3           Do         Jan. 3-30         38         33         3           Do         Jan. 3-30         38         33         3           Straits Settlements:         Singapore         Nov. 1-Dec. 5         8         8           Syria:         Beirut         Nov. 11-20         1         1           Do         Jan. 23-31         1         1	290; deaths, 111. out 60 miles north of Callao. n hospital. Some cases in Prov ince. 2 or 15 cases reported unoffi cially.
Fersia:         Oct. 21-Nov. 21         12           Peru         Jan. 28         15           Huscho         Jan. 28         15           Lima         Jan. 1-31         20           Mollendo         do         12           Russia         May-June         67           Do         July-October         166           Senegal         September-Octo- 45         25           Senegal         September-Octo- 45         3           Bangkok         Nov. 15-28         3         3           Do         Jan. 3-30         38         3           Do         Jan. 3-30         38         33           Do         Feb. 7-13         5         4           Straits Settlements:         Singapore         Nov. 1-Dec. 5         8         8           Do         Jan. 3-9         2         2           Syria:         Beirut         Nov. 11-20         1           Jan. 21-31         1         1	290; deaths, 111. out 60 miles north of Callao. n hospital. Some cases in Prov ince. 2 or 15 cases reported unoffi cially.
Peru	290; deaths, 111. out 60 miles north of Callao. n hospital. Some cases in Prov ince. 2 or 15 cases reported unoffi cially.
Huscho	290; deaths, 111. out 60 miles north of Callao. n hospital. Some cases in Prov ince. 2 or 15 cases reported unoffi cially.
Huscho	ort 60 miles north of Callao. n hospital. Some cases in Province. 2 or 15 cases reported unofficially.
Lima         Jan. 1-31         20         In           Mollendo         do.         12           Russia         May-June         67           Do.         July-October         166           Senegal         September-October         45           ber.         Aug. 23-Dec. 26         65         53           Bangkok         Nov. 15-28         3         3           Do.         Jan. 3-30         38         33           Do.         Jan. 3-30         38         33           Straits Settlements:         5         4           Singapore         Nov. 1-Dec. 5         8         8           Byria:         Nov. 1-Dec. 5         8         8           Berrut         Nov. 11-20         1         1           Jan. 21-31         1         1         1	n hospital. Some cases in Province. or 15 cases reported unofficially.
Mollendo   do.   12   12   12   13   14   15   15   15   15   15   15   15	ince. 2 or 15 cases reported unofficially.
Mollendo	2 or 15 cases reported unofficially.
Russia     May-June     67       DO     July-October     166       Senegal     September-October     45       Siam     Aug. 23-Dec. 26     65     53       Do     Jan. 3-30     38     33       Do     Jan. 3-30     38     33       Straits Settlements:     Nov. 1-Dec. 5     8     8       Singapore     Nov. 1-Dec. 5     8     8       Syria:     Nov. 11-20     1     1       Do     Jan. 21-31     1     1	cially.
Senegal         September-October.         45         25           Siam.         Aug. 23-Dec. 26         65         53           Bangkok.         Nov. 15-28         3         3           Do.         Jan. 3-30         38         33           Do.         Feb. 7-13         5         4           Straits Settlements:         Nov. 1-Dec. 5         8         8           Sugapore         Nov. 1-Dec. 5         8         8           Syria:         Nov. 11-20         1           Do         Jan. 21-31         1	***
Senegal         September-October.         45         25           Siam.         Aug. 23-Dec. 26         65         53           Bangkok.         Nov. 15-28         3         3           Do.         Jan. 3-30         38         33           Do.         Feb. 7-13         5         4           Straits Settlements:         Nov. 1-Dec. 5         8         8           Sugapore         Nov. 1-Dec. 5         8         8           Syria:         Nov. 11-20         1           Do.         Jan. 21-31         1	
Siam	
Siam	și 
Do	мі ч
Do.   Feb. 7-13   5   4	și 
Do.   Feb. 7-13   5   4	11
Singapore Nov. 1-Dec. 5. 8 8 8	,
Singapore Nov. 1-Dec. 5. 8 8 8	,
Syria: Do. Jan. 3-9 2 2  Beirut Nov. 11-20 1  Do. Jan. 21-31 1	1
Beirut Nov. 11-20 1	į.
Do Jan. 21–31 1	
Do	
I nion of South Africa.	
Cape Province—	
Kimberley district Dec. 13-19 1	•
Kimberley district Dec. 13-19 1   Bi Middleburg district Dec. 6-12 1 E. Steynsburg district Nov. 15-23 1 N	Luropean.
Steynsburg district Nov. 15-21 I Nov. 15-21 I Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-21 Nov. 15-2	Vative. On farm.
Winburg district Feb. 21–27	
Boshof district Nov. 29-Dec. 5 1 1 In	n native.
Boshof district	Vative. On farm
On vessel:	TODATE OF TOTAL
Steamship Cid	an. 29, 1926. At Buenaventura
	Colombia. Rat was killed while jumping shore from vessel.
SMALLPOX	
Algeria:	
Algiers	
Do	
Do Jan. 21-Mar. 10 64	
Arabis:	
Aden	mported.
Do Jan. 10-Mar. 6 10 1	
Argentina:	
Rosario October 1	
Australia:	
Queensland—	
Brisbane Dec. 9-15.	- Manager Mintelier Court -
Bahamas Feb. 23 In	n Nassau district. Stated to
Descritte	have been imported.
Brazil: Manaos	
Manaos Dec. 1-31 12 Jan. 31-Feb. 20 6	
Pars	
Para Jan. 10-Mar. 6 28 6 Rio de Janeiro 28 72	
Dec. 6-26 65 26	
Do	

### Reports Received from December 26, 1925, to April 23, 1926—Continued

### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
British East Africa:				
Kenya—	Nov. 15 Dec. 10	14		
Mombasa Do	Nov. 15-Dec. 19 Dec. 27-Jan. 2	1	6	From mainland,
Uganda Protectorate British South Africa:	Sept. 1-Oct. 31	8	4	- a visit animitation
Northern Rhodesia	Jan. 5-11	2		
Southern Rhodesia	Nov. 13-Dec. 23	3		Comb. 10 Ton. O. T. W.D 1
Canada				Sept. 13-Jan. 2: In 7 Provinces, 186 cases. Jan. 3-Feb. 27, 1926:
				Cases 277
Alberta Calgary	Dec. 13-19	<u>i</u>		Jan. 3-Apr. 3, 1926: Cases, 55. From Drumheller, vicinity of
British Columbia—		_ '		Calgary.
Vancouver	Jan. 4-Mar. 27 Mar. 21-27	2 2		
Victoria Manitoba	MIMI. 21-21	2		Jan. 3-Apr. 3, 1926. Cases, 44,
Winnipeg	Dec. 13-19	2		van. 0 11pr. b, 1020. Cases, 44.
Do	Jan. 3-Apr. 3	15		
New Brunswick-	ſ			
Northumberland Ontario	Dec. 6-13	1		Dec. 1-31, 1925; Cases, 32, Jan.
Ontario				Dec. 1-31, 1925: Cases, 32. Jan. 3-Apr. 3, 1926. Cases, 204.
Admaston	Jan. 1-Feb. 1	16		Township.
Alice and Fraser	Feb. 1-28	6		Do.
King.	do	7		100
Wilmot Belleville	do	6	]	Do.
Kingston	Mar. 8-14	1		
Kitchener	do	26		
North Bay	Feb. 14-Mar. 14	7		
Ottowa	Dec. 6-12	2 2		
Do Sarma	Jan. 3-Feb. 6 Mar. 14-20	1		
Toronto	Dec. 27-Jan. 2	li		
Do	Jan. 3-Mar. 20	26		•
Trenton	do	15		-
Saskatchewan Moose Jaw	Feb. 21-Mar. 13	2		Jan. 3-Apr. 3, 1926: Cases, 73.
Regina.	Jan. 24-Mar. 13	3		
Saskatoon	Feb. 14-20	ĭ		1
Ceylon:	70.000			
ColomboDo	Dec. 6-12 Jan. 3-Feb. 6	1 5		Port case.
Chile:	} sau. j-ren. d	1		- '
Punta Arenas	Dec. 13-26		8	
Do	Dec. 27-Jan. 2		4	,
China: Amoy	Oct. 25-Dec. 19		1	
Do	Jan. 10-Mar. 6	ł	11	
Antung	. Dec. 7-20	2		
Changsha	Feb. 21-27			Present.
Chungking	Nov. 15-27 Nov. 1-Mar. 6 Nov. 14-Dec. 26 Jan. 10-Mar. 6			Do. Do.
Foochow Hankow	Nov 14-Dag 96	4		D0.
Do	Jan. 10-Mar. 6	3		
Hongkong	. I INOV. 22-17ec. 20			
Do	Jan. 3-Feb. 27	9	4	
Manchuria— An-shan	Dec. 6-12	1		
Do	Jan. 10-Feb. 13	6		South Manchurian Railway.
Changchum	.  Jan. 10-Feb. 27	20		Do.
Duiren	1 ()et 19-1)ec 27	1 73	15	
Do	Dec. 28-Mar. 7 Jan. 17-23	77	24	Do.
Fushun Harbin	I Ian I.A. Iar A	3		100.
Kairvnan	Jan. 10-30	. 4		Do.
Kungchuling	.] Jan. 31-Feb. 20	2 2 1		1
Lilo-yang	Jan. 17-Mar. 13	2		Do.
Mukden	. I C/CE, 29-NAV. 15	1 4		Do. Do.
Tieh-line	do do	2		. 10.
Do Tieh-ling Nanking	Nov. 21-Dec. 26			Present.
D0	.  Dec. 27-Feb. 13			Do.
Shanghai	Uct. 25-Jan. 2	37	36	Corne foreign cult
Do	Jan. 3-Mar. 13	1 56	131	Cases, foreign only,

### Reports Received from December 26, 1925, to April 23, 1926—Continued

### SMALLPOX-Continued

China	Place	Date	Cases	Deaths	Remarks
November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November   November			-	ļ	
Tentsin Nov. 1-Dec. 19. 2	China—Continued.	Nov 22-Mar. 13			Prevalent.
Chosen: Seashin	Tientsin	Nov. 1-Dec. 19			
Septimum		Jan. 23-30	1		
Alexandria   Dec. 3-31   5   7   Do		Jan. 1-31	5	2	
Do.   Jan. 2-14   22   16     Port Said   Feb. 29-Mar 4   12     Esthomia   Mar. 1-10   5     Gold Coast   September   De	Egypt:	70.001		١ .	
Esthonia   France   Jan. 25-31   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September	Alexandria	Jec. 3-31	2		
Esthonia   France   Jan. 25-31   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September   Decay   September	Do	Jan. 29-Mar. 4	22	6	
France.  Havre.  Havre.  Faris.  Gold Coast.  September. December.  Fingland and Wales  Hull.  Doc. 27-Jun. 23. 29  Doc. Jun. 14-Feb. 6. 4  London  Newerstle-on-Tyne.  Nov. 29-Dec. 12  Do. Dec. 27-Jun. 23. 29  Doc. Jun. 14-Feb. 6. 4  London  Nov. 29-Dec. 12  Do. Dec. 27-Jun. 23. 29  Nov. 15-Dec. 26. 1925: Cases  Bec. 27-Mar. 27, 1926: Cases  Doc. Jun. 14-Feb. 6. 4  London  Nov. 29-Dec. 12  Doc. Jun. 14-Feb. 6. 4  London  Nov. 29-Dec. 12  Doc. Jun. 14-Feb. 6. 4  London  Nov. 29-Dec. 12  Doc. Jun. 14-Feb. 6. 4  London  Nov. 29-Dec. 12  Doc. Jun. 14-Feb. 6. 4  London  Nov. 1-Dec. 31. 18  Greece.  Athens.  Nov. 1-Dec. 31. 18  Jun. 1-Feb. 28. 56  Ralamata  Mar. 1-7. 1  Salouiki.  Feb. 16-Mar. 15. 22  India  Bonibay  Nov. 8-Dec. 26. 28  Doc. Dec. 27-Feb. 20. 113  Salouiki.  Feb. 16-Mar. 15. 22  Doc. Doc. 13-19  Do. Dec. 27-Feb. 20. 113  South Nov. 1-20  Rangeon  Oct. 1-31, 1925: Cases, 16.  Province  Andras Jan. 24-Mur. 6. 32  Doc. Doc. 13-19  Doc. Doc. 13-19  Doc. Jun. 14-Feb. 6. 4  London  Salgon  Doc. Jun. 14-Feb. 6. 4  London  Nov. 1-Dec. 31. 18  Took 11  Doc. Jun. 14-Feb. 28  Doc. Doc. 13-19  Doc. Doc. 13-19  Doc. Jun. 14-Feb. 28  Doc. Jun. 14-Feb. 28  Doc. Jun. 14-Feb. 28  Doc. Jun. 14-Feb. 28  Doc. Jun. 14-Feb. 28  Doc. Jun. 14-Feb. 39  Doc. Jun. 14-Feb. 6. 4  London  Salgon  Doc. Jun. 14-Feb. 6. 4  London  Nov. 1-Dec. 26. 199  Doc. Jun. 14-Feb. 6. 4  London  Took 11  Doc. Jun. 14-Feb. 6. 4  London  Took 11  Doc. Jun. 14-Feb. 6. 4  London  Salgon  Doc. 21-27  Doc. Jun. 14-Feb. 6. 15  Doc. Jun. 14-Feb. 6. 15  Took 11  Doc. Jun. 14-Feb. 6. 15  Doc. Jun. 14-Feb. 6. 15  Doc. Jun. 14-Feb. 6. 15  Doc. Jun. 14-Feb. 16  Doc. Jun. 14-Feb. 16  Doc. Jun. 14-Feb. 16  Doc. Jun. 14-Feb. 16  Doc. Jun. 14-Feb. 16  Doc. Jun. 14-Feb. 16  Doc. Jun. 14-Feb. 16  Doc. Jun. 14-Feb. 16  Doc. Jun. 14-Feb. 16  Doc. Jun. 14-Feb. 16  Doc. Jun. 14-Feb. 16  Doc. Jun. 14-Feb. 16  Doc. Jun. 14-Feb. 16  Doc. Jun. 14-Feb. 16  Doc. Jun. 14-Feb. 16  Doc. Jun. 14-Feb. 16  Doc. Jun. 14-Feb. 16  Doc. Jun. 14-Feb. 16  Doc. Jun. 14-Feb. 16  Doc. Jun.	Port Said	Feh. 26-Mar. 4	1		November 1925 Cases 3
Paris	France				September-December, 1925:
Paris	Havre	Jan. 25-31			Cases, 253.
Great Britain:	Paris	Mar. 1-10			
Fingland and Wales				1	
Do	Great Britain:	i 1	1	_	New 15 Day 26 1025: Cases 700
Do	England and wates	Dec. 27-Jan. 23	29		Dec. 27-Mar. 27, 1926; Cases,
Leeds	Do	Feb. 7-Mar. 27			3,481
Newcastle-on-Tyne	Leeds	Jan. 14-Feb. 6	4	ļ	
Notingham	London	Jan. 31-Feb. 6		1	
Notingham	Newcastic-on-Tyne	Dec 27-Mar. 27		i	-
Do	Nottingham	Nov. 22-Dec. 26	9		
Do	Do	Dec. 27-Feb. 27			
Do	Sheffield	Nov. 22-Dec. 12			
South Shields	Do	Dec. 20-26			1
Greece	South Shields	Feb. 9	10		Reported present in severe form.
Ralmata   Mar. 1-7   1   Saloniki   5   Feb. 16-Mar. 15   2   1   2   1   1   2   2   1   1   2   2	Greece.				Oct. 1-31, 1925: Cases, 16.
Ralmata   Mar. 1-7   1   Saloniki   5   Feb. 16-Mar. 15   2   1   2   1   1   2   2   1   1   2   2		Nov. 1-Dec. 31	18	1	
Saloniki   Feb. 16-Mar. 15	D0	Jan. 1-Fcb. 28	50	}	From Paires
India	Saloniki •	Feb. 16-Mar. 15		2	
Calcutta Nov. 29–Dec. 26. 48 25 Do. Dec. 27–Feb. 27. 370 Rarachi Nov. 1-21 23 Do. Nov. 29–Dec. 5. 4 2 Do. Dec. 13–19. 3 Do. Dec. 13–19. 3 Do. Dec. 29–Mar. 6. 79 24 Madras Jan. 24–Mar. 6. 34 6 Rangcon Oct. 25–Nov. 28. 3 Do. Dec. 27–Jan. 16. 13 1 Do. Dec. 27–Jan. 16. 13 1 Do. Jan. 24–30. 6 Do. Jan. 24–30. 6 Indo-China Do. Jan. 31–Feb. 27. 56 9 Indo-China Province— Annam Sept. 1–Oct. 31 90 23 Cambodía do. 61 30 Saigon Dec. 21–27. 2 1 Do. Jan 1–Mar. 7. 8 1 Including 100 kilometers of rounding country.  Iraq: Bagdad Nov. 1–Dec. 26. 19 Do. Dec. 27–Feb. 13. 40 Italy Iraq: Bagdad Nov. 1–Dec. 26. 19 Dec. 27–Feb. 13. 40 Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy	India	1		!	Ort. 18-Dec. 26, 1925. Cases,
Calcutta Nov. 29–Dec. 26. 48 25 Do. Dec. 27–Feb. 27. 370 Rarachi Nov. 1-21 23 Do. Nov. 29–Dec. 5. 4 2 Do. Dec. 13–19. 3 Do. Dec. 13–19. 3 Do. Dec. 29–Mar. 6. 79 24 Madras Jan. 24–Mar. 6. 34 6 Rangcon Oct. 25–Nov. 28. 3 Do. Dec. 27–Jan. 16. 13 1 Do. Dec. 27–Jan. 16. 13 1 Do. Jan. 24–30. 6 Do. Jan. 24–30. 6 Indo-China Do. Jan. 31–Feb. 27. 56 9 Indo-China Province— Annam Sept. 1–Oct. 31 90 23 Cambodía do. 61 30 Saigon Dec. 21–27. 2 1 Do. Jan 1–Mar. 7. 8 1 Including 100 kilometers of rounding country.  Iraq: Bagdad Nov. 1–Dec. 26. 19 Do. Dec. 27–Feb. 13. 40 Italy Iraq: Bagdad Nov. 1–Dec. 26. 19 Dec. 27–Feb. 13. 40 Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy Italy	Bombay	Nov. 8-Dec. 26			19,472; deaths, 4,440. Dec. 27,
Nov. 1-Dec. 25	Cularita	Dec. 27-Feb. 20	113	58	1925-Feb. 6, 1926; Cases, 36,335;
Rarachi		Dec. 27-Feb. 27			deaths, 11,191.
Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natu	Karachi	Nov. 1-21	23		
Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natu	Do	Nov 29-Dec. 5		2	
Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natural   Natu	Do	Dec 94-Mar 6		24	
Rangeon	Madras	Jan. 24-Mur. 6	34		
Indo-China	Rangoon	Oct. 25-Nov. 28		<u>-</u> -	
Indo-China	Do	Dec 5-25		1	
Indo-China	Do	Jan. 24-30		Ì	
Province	Do		56	9	
Annam Sept. 1-Oct. 31 90 23 Cambodia do. 72 30 Cochin China do. 61 30 Saigon Dec. 21-27. 2 1 Do Jan 1-Mar. 7. 8 1 Tonkin Dec. 2-Jan. 2 22 Iraq: Bagdad Nov. 1-Dcc. 26 19 15 Basra Dec. 27-Feb. 20 15 7 Catania Feb. 15-28 1 1 Genoa Jan. 21-Feb. 10 4 Jamaica Nov. 29-Dec. 26, 1925: Cases Dec. 27, 1925-Feb. 27, Cases, 290. Reported as	Province-				
Cambodia do. 72 30 Cochin China do. 61 30 Saigon Dec. 21–27. 2 1 Do Jan 1-Mar. 7. 8 1 Tonkin Dec. 2-Jan. 2 22 Iraq: Bagdad Nov. 1-Dec. 26. 19 15 Do. Dec. 27-Feb. 18. 40 Basra Dec. 27-Feb. 18. 40 Italy Aug. 2, 1925; Jan. 2, 1926; Cases Genoa Jan. 21-Feb. 10. 4 Rome Oct. 12-25. 1 Jamaica Nov. 29-Dec. 26, 1925; Cases Dec. 27, 1925-Feb. 27, Cases, 29. Reported as	Annam	Sept. 1-Oct. 31	90		wor, utune, us.
Cochin China	Cumbodia	do	72	30	
Do	Cochin China	do			
Tonkin Dec. 2-Jan. 2 22 rounding country.  Iraq: Bagdad Nov. 1-Dec. 26 19 15 Dec. 27-Feb. 20 15 7 Basra Dec. 27-Feb. 13 40 32  Italy Catania Feb. 15-28 1 1 52. Jan. 3-16, 1926: Cases Genoa Jan. 21-Feb. 16 4 Rome Oct. 12-25 1 Nov. 29-Dec. 26, 1925: Cases Dec. 27, Cases, 260. Mar. 21-27, Cases, 59. Reported as frim	Do	Dec. 21-21	2		Including 100 kilometers of our
Tonkin   Dec. 2-Jan. 2.   22			-	•	rounding country.
Bagdad     Nov. 1–Dcc. 26.     19     15     Sept. 6–Oct. 17, 1925: Cases       Do.     Dec. 27–Feb. 20.     15     7     6 caths, 40.       Basra     Dec. 27–Feb. 18.     40     32       Italy     Feb. 15–29.     1     1     52.     Jan. 3–16, 1926: Cases       Genoa.     Jan. 21–Fcb. 16.     4     1       Rome.     Oct. 12–25.     1     Nov. 29–Dec. 26, 1925: Cases       Dec. 27, 1925–Feb. 27, Cases, 260.     Mar. 21–27, Cases, 59.     Reported as       Intrins	Tonkin	Dec. 2-Jan. 2	22		
Do.   Dec. 27-Feb. 20.   15   7   deaths, 40.	Hag:	Mary 1. Dog 98	10	.,	Somt C Oct 17 1005: Come 01.
Haly	Do	Dec. 27-Feb. 20			doothe 40
Catania Feb. 15-23 1 1 52. Jan. 3-16, 1926: Cases Genoa Jan. 21-Feb. 16 4	Basra	Dec. 27-Feb. 13		32	-
Genoa Jan. 21-Fct. 16. 4  Rome Oct. 12-25. 1  Jamaica Nov. 29-Dec. 26, 1925: Cases  Dec. 27, 1925-Feb. 27, Cases, 260. Mar. 21-27, Cases, 59. Reported as fring	Italy				Aug. 2, 1925; Jan. 2, 1926: Cases,
Rome. Oct. 12-25. 1 Jamaica	Genos	rep. 15-23		1	52. Jan. 3-16, 1926: Cases, 12.
Jamaica. Nov. 29-Dec. 26, 1925: Cases Dec. 27, 1925-Feb. 27, Cases, 260. Mar. 21-27, Cases, 59. Reported as	Rome.	Oct. 12-25			
t t irin.	Jamaica				Nov. 29-Dec. 26, 1925; Cases. 95.
t t trim	/				Dec. 27, 1925-Feb. 27, 1926:
t t t irim.					Cases, 260. Mar. 21-27, 1926:
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Kingston Nov. 29 Dec. 26 43 Reported as alastrim.	Kingston	Nov. 29-Dec. 26 Dec. 27-Jan. 30	43		Reported as alastrim.
Do. Dec. 27-Jan. 30 48 Do. Do. Do. Do.	Do	Dec. 27-Jan. 30			

# Reports Received from December 26, 1925, to April 23, 1926—Continued SMALLPOX—Continued

Place	Date	Cases .	Deaths	Remarks
Japan:				
Nagasaki Talwan	Feb. 15-21 Nov. 11-Dec. 10	3		
Yokohama	Dec 14-20	1		
Do	Dec. 14-20 Feb. 23-Mar. 14	38	5	
Java.				
Batavia	Oct. 24-30	1		
Do Bu ⁱ tenzorg	Nov. 14-Dec. 25	7 1		
Cheribon.	Nov. 8-Dec. 12	2		
Do	Nov. 29-Dec 5 Nov. 8-Dec. 12 Jan. 31-Feb. 6		1	
Kraksaan	Oct. 11-17	11		
Malang.	Oct. 11-Jan. 16	13		
North Bantam Pekalongan	Oct. 4-17 Oct. 25-31	4		
Pontianak	Jan. 31-Feb. 6		1	
Probolingo	Oct. 11-17	1		
South Bantam	Oct. 11-17	1		
Surabaya	Oct. 11-17. Oct. 11-Dec. 26 Dec. 27-Feb. 13	633 131	104 40	
Tegal.	Oct. 4-10.	101	1	
Latvia				December, 1925: Cases, 3.
Malta	Nov. 1-Dec. 21	21	3	
D ₀	Jan. 1-Feb. 28	20		Talm Contambon 1502 D. H.
Mexico Aguascalientes	Dec. 13-Jan. 2	4	3	July-September, 1925; Deaths, 1,157.
Do	Jan. 3-30		7	1,1,1,1
Do	Feb. 14-Mar. 27		12	
Durango	Dec. 1-31		1	
Do	Jan. 1-31		2 16	
Guadalajara Mexico City	Dec. 27-Apr. 6 Nov. 28-Dec. 5	1	10	Including municipalities in Fed
maga, chyman				eral District.
Do	Jan. 3-Mar. 27 Jan. 17-Mar. 20	7		.Do.
San Luis Potosi	Jan. 17-Mar. 20		53	
Tampico Do	Dec. 21-Jan. 2 Jan. 2-Mar. 10	1 8	1	
Torreon	Nov. 1-Dec. 31		51	
Do	Nov. 1-Dec. 31 Jan. 1-Feb. 28		54	
Vera Cruz	Mar. 29-Apr. 4		1	
Netherlands: The Hague	Jan. 30-Mar. 6	2	1	
Nigeria.	dan outral o	-	1	August-November, 1925; Cases.
				347; deaths, 6.
Pulestine:	Jan. 26-Feb. 1	2	1	
Hebron Tiberias	Feb. 9-15	ĺí		
Persia:		_		
Teheran	July 23-Dec. 22		775	
Peru: Arequipa	Oct. 1-Dec. 31		2.	
Poland				Nov. 1-28, 1925: Cases, 9.
Portugal:			‡	
Lisbon	Oct. 4-31	124	60	
Do	Nov. 16-Dec. 27 Nov. 14-Dec. 26	187	00	
Do	Dec. 27-Mar. 27	116	29	_
Oporto	Dec. 27-Mar. 27 Nov. 22-Dec. 19	3	3	
Do	Dec. 27-Mar. 6		1	
Russia.	August-October	3		May-June, 1925. Cases, 2,333.
Do	July-October	1.563		-
Siam				July 12-Sept. 5, 1925: Cases, 21;
Bangkok	Dec. 20-25	3 51	17	deaths, 6.
Do Sierra Leone:	Dec. 26-Feb. 13	] 51	1 **	
Konno district	Dec. 16-31	5	l	
Spain:			1	
Mudrid	Year 1925	<u> </u>	. 13	
Do Malaga	Jan. 1-31 Nov. 29-Dec. 5		1 2	
Do	Dec. 27-Jan. 2		l ī	1
Valencia	Nov. 29-Dec. 5 Dec. 27-Jan. 2 Dec. 20-26	1		1
Do	Dec. 27-Jan. 2	9 1		1
Do Do	Jan. 10-Feb. 6 Feb. 14-Mar. 12	7	1	
Straits Settlements:	TUD. PT-ITIOL. IS	1 '	1	
Singapore	Dec. 20-26	1		1
Do	· Jan. 10-16	1 2	1 1	1

### Reports Received from December 26, 1925, to April 23, 1926—Continued

	SMALLPOX	1	1	
Place	1 Date	('ases	Deaths	Remarks
Sumaira:	1			
Medan	Feb. 21-27	' 1	l	, , , , , , , , , , , , , , , , , , , ,
Switzerland		,		June 28-Nov. 21, 1925: Cases, 6 Dec. 27, 1925-Jan. 30, 192 Cases, 37.
Lucerne	Oct. 1-Nov. 30	8		Dec. 27, 1925-Jan. 30, 192
Do	Jan. 1-31	5		Cases, 37.
Nullen	., Dec. 21-jan. 2	. 1		
Do	Jan. 1-Mar. 20	8	,	
Funisia:	Nov 01 90	,	1	
Tunis	Nov 21-30 Dec. 11-31 Jan. 1-Feb 20	10	,	
Do	Jan 1-Feb 20	1 6	٠	ī
Union of South Africa:	,	1		1
( ipe Province	Jan. 17-23	· 	,	Outbreaks.
Orange Free State-			Į.	
Kuruman district	Jan. 10–16	l	1	Do.
Ladybrand district	_, Dec. 27–Jan. 2	,		Do.
1143101444	1 .	•	1	_
Belfast district Germiston district Pretoria district On vessel	· 'do			Do.
Germiston district	- Jan. 2-9		<u>'</u>	Do.
On the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification of the classification	- Dec. 0-12			Outbreaks. In pative compoun
On ressel	. Feb. 21	1 -		Mexican steamer Montezuma, Port of Ensenada, Mexico.
	,	<u> </u>	<u> </u>	]
	TYPHUS	FEVE	ER	
Algeria:				
Algrers	Nov. 1-Dec. 20 Jan. 1-Feb 28	2		
	. Jan. 1-Feb 28	9		
Argentina:	0 - 10 70 - 01	2	}	1
Rosario Bulgaria	- Oct. 13-Dec. 31	50	3	
Sofia	Oct. 13-Dec. 31 Sept. 1-Dec. 31 Dec. 25-31	1		
Do	Jan. 8-14	2	1	
Canary Islands:	1	1		
Santa Cruz de Teneriffe	Mar. 8-14	1		1
Chile	_'			Dec. 15-31, 1925; Cases, 46.
At hao		1		
Bulnes	do	1		
'hillan	do	24		1
('oncepcion.	00	6		Į Į
Linaies Los Angeles	do	5		i
Penco	do	2		ì
Penco San Carlos	do	ī		ı
Talca	_'do	ĩ		1
Valuaraiso	Nov. 29 Jan. 2	4		1
Valparaiso Do	Nov. 29 Jan. 2		. 2	1
China:	4	١.	1	!
Antung	Nov. 20-Dec. 27- Jan. 4-Mar. 7 Dec. 27-Jan. 2	5	1	i
Do.	. Jan. 4-Mar. 7	7	·	ĭ
Hongkoug Manchuru.—	. Dec. 27-Jan. 2	1		t
Harbin	Dec 17-Feb. 4	3	1	i .
Czechoslovakia	October-December	145	1	1
Egypt:	- Scroper-December	13.)	1	
A lexandria	Jan. 8-Feb. 25	2		1
('airo	Nov. 5-Dec. 16 Nov. 19-25 Mar. 12-18 Jan. 1-31	3	2	
('airo Port Said	Nov. 19-25	1		! }
Do	. Mar. 12-18	1		
Est honia	. Jan. 1-31	6		1
Finland				October, 1925: 1 case.
France	- July-October	4	}	D
Greece Athens	Nov. 1-20			December, 1925: Cases, 12.
Do	Nov. 1-30 Jan. 1-Feb. 28	11 38	2 7	
Saloniki	Dec. 29-Jan. 4	38	7	
Do	Feb. 2-8	1		
		·		November-December, 192
Hungary				Cases, 16.
Hungary				
Ireland:		1	1	·
Ireland: Cork County—				
Ireland: Cork County— Cork	Dec. 26-Jan. 1	2		
Ireland: Cork County— Cork	. Jan. 2-6	5		
Ireland: Cork County— Cork	Nov. 14			

# Reports Received from December 26, 1925, to April 23, 1926—Continued TYPHUS FEVER—Continued

Place	Date	Corne	Deaths	Remarks
Ireland—Continued.				
Kerrad—Continued. Kerry County— Listowel. Wexford County— Gorey Latvia Lithuania	3.6			
Listowei	Mar. 7-13	1		Rural district.
wexiora County-	a a		]	D .
Lot via	October Thecomber			Do.
Lathnonio	October-December	*		Santambur Our dans 160% 13 con
Entituania				September-October, 1925: Cases, 9, deaths, 1.
				July-September, 1925. Deatle,
Aguascalientes	Dec 14-19	1		90
Mexico. Aguascalientes Durango	Dec. 1-31		1	
Do	Jan. 1-31		1	
Guadalajara	Dec. 8-28		1 2	
Do	Dec 29-Jan. 4		1	
Mexico ('it')	Nov 22-Dec. 26	145	,	Including municipalities in Fed-
- ·	70. 07.31			eral District
Do	Dec 27-Mar. 20	84		Do.
San Luis Potosi	ren. 6-13		1	
Tampico	Dec. 21-Jan. 10	·	1	
Yoro Chur	Pob 19		4	
Moranea	Ammet Dogowalian		1	
Norwey	August-December.	. 83		November-December, 1925
Not way				Cases, 2
Pulestine:			,	Cuses, 2
Gaza	Dec. 18	1	L	
Jaffa	Dec. 17	î		
Do	Feb 23-Mar 1	ĩ		
Nazareth	Nov 3-9	1		
Safad	Nov 24-30	1	·	
Tel-Aviv	do	1		
Do	Mar 9-15	1		
_ Tiberias'	do	2		
Peru:		•	1	
Arequipa	October-December		3	ı
Poland'	Oct. 11-Nov. 18	215		
Бо	Nov. 29-Jan. 2	247 190	. 18	
D0	Jun. 3-16	190	14	Tailer () (ultimate visite of a constant
Kumania	77.3. 1 31 10			July-October, 1925; Cases, 181 deaths, 22. May-June, 1925; Cases, 10.680.
Durais	Feb. 1-Mar 10	2	i	1 Alexa Trans. 1005, 43 mm, 10 000
Arequipa Arequipa Poland Do. Do. Rumania. Constantza. Russia Do.		1		Intr-October 1925 ( 1868, 1978).
m ('''				July-October, 1925; Cases, 6,035.
Turkey: Constantinople Do Union of South Africa	Jan. 24-30	3		1
Do	Feb. 9-22	5	3	From unofficial sources (press).
Union of South Africa				October, 1925; Cases, 88, deaths,
				From unofficial sources (press) October, 1925; Cases, 88, deaths, 7 (colored). Cases, European, 7. December, 1925; Cases, 78; deaths, 9. Colored; Cases, 73; deaths, 9. January, 1926; Cases, 14; deaths, 18. Euro- pean cases, 5.
Cape Province	Oct. 1-31	#3	1 .3	Conored.
Cape Province	Nov. 8-Dec. 31	47	8	
Do	Jan. 1-Feb. 27	74	14	Do.
Gi.hamstown	Jan. 24-30	2		Barren a Cart
Mindienurg district	Dec. 6-12			European. On larm.
Natal.	Oct. 1-Dec. 5	1	!	
Dhan	Jan 2 Pob 07	9 3	1	Colored.
Onanga Prop State	Jun. 5-rep 27	23	1	
	100. 29-1766. 0	8	1	
Do			3	Do.
Do	Top 1_Feb 97	41		
Do	Jan. 1-Feb. 27	ថ	1	
Do	Jan. 1-Feb. 27 Dec. 6-12	ç-	1	
Natul Do Dulban Orange Free State. Do. Do. Beihulia district. Bothaville district.	Out 1_21	7	1	
Transvaal	Out 1_21	7	i	Outbreaks. Native. On farm.
Transvaal Do Do	Out 1_21	7	i	Outbreaks. Native. On farm.
Transvaal Do Do	Out 1_21	7	i	Outbreaks. Native. On farm.
Transvaal Do Do Bloemhof district	Out 1_21	7	1	Outbreaks. Native. On farm. Outbreaks. Outbreaks. On farm.
TransvaalDoBloemhof districtJohannesburg	Oct. 1-31 Dec. 1-31 Feb. 14-27.	7	1	Outbreaks. Native. On farm.  Outbreaks. Outbreaks. On farm. Jan. 1-Feb. 21, 1926: Cases, 51
Transvaal	Oct. 1-31. Dec. 1-31. Feb. 14-27. Dec. 27-Jan. 2. Mar. 1-6.	18	1	Outbreaks. Native. On farm. Outbreaks. Outbreaks. On farm.
Transvaal Do Do Bloemhof district Johannesburg Yugoslavia	Oct. 1-31	18	ER	Outbreaks. Native. On farm.  Outbreaks. Outbreaks. On farm. Jan. 1-Feb. 21, 1926; Cases, 81
Transvaal Do. Do. Do. Bloemhof district Johannesburg Yugoslavia  Gold Coast Nigeria	Oct. 1-31. Dec. 1-31. Feb. 14-27. Dec. 27-Jan. 2. Mar. 1-6.  YELLO  Sept. 1-Dec. 31. August-October.	1 18 2 2 W FEV 4 3	1 1 ER 3 2	Outbreaks. Native. On farm.  Outbreaks. Outbreaks. On farm. Jan. 1-Feb. 21, 1926; Cases, 81
Transvaal. Do	Oct. 1-31 Doc. 1-31 Feb. 14-27. Dec. 27-Jan. 2 Mar. 1-6  YELLO  Sept. 1-Dec. 31	1 18 2 W FEV	ER 3	Outbreaks. Native. On farm.  Outbreaks. Outbreaks. On farm. Jan. 1-Feb. 21, 1926: Cases, 51

# TREASURY DEPARTMENT

# PUBLIC HEALTH REPORTS

ISSUED WEEKLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

VOLUME 41 :: :: NUMBER 19

MAY 7 - - - 1926

### SPECIAL ARTICLES

Program of Conference of State Health Officers Rural Health Service in the United States, 1922-1926 Court Decisions Relating to the Public Health



WASHINGTON
GOVERNMENT PRINTING OFFICE

### UNITED STATES PUBLIC HEALTH SERVICE

HUGH S. CUMMING, Surgeon General

#### DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg. Gen. B. J. LLOYD, Chief of Division

The Public Health Reports are issued weekly by the United States Public Health Service through its Division of Sanitary Reports and Statistics, pursuant to acts of Congress approved February 15, 1893, and August 14, 1912.

They contain: (1) Current information of the prevalence and geographic distribution of preventable diseases in the United States in so far as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other communicable diseases throughout the world. (2) Articles relating to the cause, prevention, or control of disease. (3) Other pertinent information regarding sanitation and the conservation of the public health.

The Public Health Reports are intended primarily for distribution to health officers, members of boards or departments of health, and those directly or indirectly engaged in or connected with public health or sanitary work. Articles of general or special interest are issued as reprints from the Public Health Reports or as supplements, and in these forms are available for general distribution to those desiring them.

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# PUBLIC HEALTH REPORTS

VOL. 41 MAY 7, 1926 NO. 19

### CONFERENCE OF STATE AND TERRITORIAL HEALTH OFFICERS WITH THE PUBLIC HEALTH SERVICE

PROGRAM OF THE TWENTY-FOURTH ANNUAL CONFERENCE TO BE HELD MAY 24 AND 25, 1926, AT THE BUREAU OF THE PUBLIC HEALTH SERVICE, WASHINGTON, D. C.

The following is the program of the twenty-fourth annual conference of State and Territorial health officers with the United States Public Health Service, to be held on May 24 and 25, 1926, at the Bureau of the Public Health Service, corner of New Jersey Avenue and B Street SE., Washington, D. C.:

### Morning Session, May 24-9.30 a.m.

- 1. Opening address.
- 2. Roll call.
- 3. Further observations on the status of morbidity reports and the establishment of a morbidity registration area.
  - (1) Present status of reports.
  - (2) Status of proposed registration area.

The discussion on this subject will be opened by Asst. Surg. Gen. B. J. Lloyd.

- 4. The sanitary control of shellfish.
  - (1) Certification system.
    - (a) What the certification covers.
    - (b) Necessity for cooperation of the consuming States in making certification effective in its results.
  - (2) Recommendations to producing States as to minimum control measures which will be recognized by the Public Health Service as a basis for favorable report on machinery, and efficiency and reliability of control.

Discussion to be opened by Surg. H. E. Hasseltine.

### Afternoon Session, May 24-2 p. m.

5. A summary of the points brought out at the April, 1926, meeting of the advisory committee on the education of sanitarians held at the bureau of the public health service.

Discussion to be opened by Asst. Surg. Gen. W. F. Draper.

- 6. Plague: Studies in transmission, and geographical limitations of infectibility. (Studies have begun in which health officers in certain ports can help.) Discussion to be opened by Asst. Surg. Gen. S. B. Grubbs.
- 7. The present status of smallpox in the United States and measures being taken

Discussion to be opened by Senior Surg. C. C. Pierce.

(869)

92550°-26--1

### Morning Session, May 25-9.30 a. m.

8. Vaccination of dogs against rabies.

Frequent inquiries are received from city and county health officials regarding the utility of this measure. Sufficient data are not at hand upon which to base definite recommendations and conclusions.

It is requested that the State health officers secure for presentation at this conference data as to the extent and efficacy of antirabic vaccination in their respective States.

9. Present status of scarlet fever biologic products. Are they sufficiently standardized to justify their distribution by State health departments as in the case of diphtheria biologics?

Discussion to be opened by Surg. R. E. Dyer.

 Progress in the research work of the United States Public Health Service during the past year.

Asst. Surg. Gen. A. M. Stimson.

#### Afternoon Session, May 25-2 p.m.

 The sanitation of automobile garages, service and filling stations. Proposed regulations for the manufacture and blending of tetraethyl lead. Distribution of ethyl gasoline.

Discussion to be opened by Surg. J. P. Leake.

12. The control of unsegregated lepers in the United States.

There are presumably about 1,000 lepers in the United States, of which about 260 are at the National Leper Home at Carville, La. It appears to be the practice to consign to the United States Public Health Service chiefly those lepers who have become public charges or alien lepers found within the State. If leprosy is to be eradicated in the United States, more extensive action is needed on the part of State health officers. It is possible that additional legislation may be needed in some States.

Discussion to be opened by Asst. Surg. Gen. F. C. Smith.

- 13. Some problems of county health work.
  - (1) Definition of the term "Health Demonstration" and advisability of determining a set of terms to describe various health projects.
  - (2) Appraisal of resources and activities of county health departments.
  - (3) Uniform or standard forms of reports for county health work.
  - (4) General consideration of the cooperative basis for county health work.

Discussion to be opened by Surg. L. L. Lumsden.

# EXTENT OF RURAL HEALTH SERVICE IN THE UNITED STATES, 1922-1926

By L. L. LUMSDEN, Surgeon, United States Public Health Service

According to data obtained by the Rural Sanitation Office of the Public Health Service from the health departments of the States, the following (Table 1) is a list, by States, of counties (or districts) in which the rural sections at the beginning of the calendar years 1922, 1923, 1924, 1925, and 1926, respectively, were provided with local health service under the administration of whole-time county or (local) district health officers:

871

Table 1.—List of counties, or districts, in which, as of January 1, 1922, 1923, 1924, 1925, and 1926, respectively, rural sections were provided with health service under whole-time local health officers

1922	1923	1924	1925	1926
		ALABAMA		
Baldwin Barbour Calhoun Colbert Dallas Etowah Houston Lauderdale Madison Mobile Montgomery Morgan Pike Sumter Talladega Tuscaloosa Walker	Baldwin Barbour Calhoun Colbert Covington Dallas Etowah Houston Jefferson Lauderdale Madison Mobile Montgomery Morgan Pike Sumter Talladega Tuscaloosa Walker	Baldwin Barbour Calhoun Colbert Covington Dallas Escambus Escambus Escambus Estowah Franklin Houston Jefferson Lauderdale Limestoue Madison Mobile Montgomery Morgan Pike Sumter Talladega Tuscaloosa Walker	Baldwin Barbour Calhoum Colbert Covington Dallas Escambia Estowah Franklin Houston Jefferson Lauderdale Limestone Madison Marengo Marshall Mobile Montgomery Morgan Pike Sumter Talladega Tuscaloosa Walker	Baldwin Barbour Calhoun Coffee Colbeit Covington Dallas Escambia Etowah Franklin Houston Jackson Jefferson Lauderdale Lawrence Lee Limestone Mardison Marengo Marshall Mobile Montgomery Morgan Pike Sumter Talladega Tuscaloosa Walker
		ARIZONA		
			Cochise	Cochise
		ARKANSAS		
				Garland Jefferson Pulaski
		CALIFORNIA	And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	
Los Angeles San Francisco ¹	Ios Angeles Monterey Orange San Francisco 1 San Luis Obispo	Los Angeles Monterey Orange San Joaquin San Luis Obispo	Los Angeles Monterey Ocango San Diego San Joaquin San Luis Oluspo	Los Angeles Monterey Orange San Diego San Joaquin San Luis Obispo Santa Barbara
		COLORADO	to the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th	
				Otero
		CONNECTICUT		
			Fairfield 2	Fuirfield 2

Table 1.—List of counties, or districts, in which, as of January 1, 1922, 1923, 1924, 1925, and 1926, respectively, rural sections were provided with health scrvice under whole-time local health officers—Continued

1922	1923	1924	1925	1926
		FLORIDA		
				Polk
		GEORGIA		
Saldwin Barlow Stroks Stroks Stroks Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin Soldwin So	Baldwin Barlow Clarke Clobb Decatur Dougherty Floyd Fulton Glynn Hall Laurens Lowndes Mitchell Richmond Sumter Thomas Troup Walker	Baldwin Bartow Bibb Clarke Cobb Decatur Dekalb Dougherty Floyd Glynn Hall Laurens Lowndes Mitchell Buchmond Sumter Thomas Troup Walker	Baldwin Bartow Bibb Clarke Cobb Decatu Dekalb Doughert Floyd Glynn Hall Laureus Lowndes Miller Mitchell Ruchmond Seminole Sumter Thomas Troup Walker	Baker Baldwin Bartow Bibb Clarke Cobb Decatur Dekalb Dougherty Floyd Grady Hall Laurens Lowndes Mitchell Richmond Sumter Thomas Troup Walker Ware
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Bannock Twin Falls Boise		-	,	
		ILLINOIS		
	Morgan	Morgan	Cook Crawford Morgan Sungamon	Cook Morgan Sangamon
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Dubuque	Dubuque	Dubuque Washington	Dubuque Washington	Dubuque
		KANSA9	Primaria (Primaria) de Caractería de La Caractería de La Caractería (Caractería de Caractería (Caractería de C	
Butler Cheroker Ellir Foni Geary Marion Ottawa Wabauusee	Butler Cherokee Ellis Ford Geary Marion Ottawa Wahauasee	Butler Cherokee Ellis Geary Lyon Marion Ottawa Sherid in	Cherokee Geary Lyon Marion Ottawa Sheridan	Butler Coffey Ellis Geary Jefferson Lyon Marion McPherson Ottawa Phillips

Table 1.—List of counties, or districts, in which, as of January 1, 1922, 1923, 1924, 1925, and 1926, respectively, rural sections were provided with health service under whole-time local health officers—Continued

1923	1924	1925	1926
	KENTUCKY		
Boyd Daviess Fullon Harlan Jefferson Johnson Mason Scott	Bell Boyd Daviess Fayette Fulton Jefferson Johnson Mason Scott	Boyd Daviess Fayette Fulton Jefferson Johnson Mason Scott	Boyd Daviess Fayette Fulton Jefferson Johnson Mason Scott
	LOUISIANA 3		
Beauregard Caddo De Soto Natchitoches Ouachita Rapides Washington	Beauregard Caddo Claiboine De Soto Natchitoches Ouachita Rapides St. Mary Tangipahoa Washington	Beauregard Caddo Clairorne De Soto Natchitoches Ouachta St. Mary Tangipahoa Washington	Caddo Claiborne De Soto Lafourche Natchitoches Ouachita Plaquemines St Mary Tangipahoa Weshington Webster
	MAINE 2		
Oldtown Rumford St niord Waterville York	Oldtown Rumford Saniord Waterville York	Oldtown Rumford Sanford Waterville York	Oldtown Rumford Sanford Waterville York
	MARYLAND		
Allegany	Allegany Frederick Montgomery	Allegany Baltimore Calvert Carroll Frederick Montgomery	Allegany Baltimore Culvert Carroll Frederick Montgomery
	MASSACHUSETTS		attick of a second control to a second discount of a second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount of the second discount
Cape Cod 2	Cape Cod 2	Cape Cod *	Cape Cod?
	MINNESOTA		
	St. Louis	St. Louis	St. Louis
Bohvar Coahoma Forrest Harrison Hinds Jones Lauderdale Lee Leflore Marshall Tallahatchie Washington	Bolivar Coahoma Forrest Harrison Hinds Jones Lauderdale Lee Tallahatchie Washington	Bolivar Coahoma Foi rest Hancock Harrison Jackson Jones Loe Pearl River Sharkey Washington	Bolivar Co.ihoma Forrest Hancock Harrison Hinds Jackson Jones Lee Leflore Pearl River Sharkey Washington
	Boyd Daviess Fulton Harlan Jefferson Johnson Mason Scott  Beauregard Caddo De Soto Natchitoches Ouachita Rapides Washington  Oldtown Rumford Synord Waterville York  Allegany Montgomery  Cape Cod 2  Cape Cod 2  Bolivar Coahoma Forrest Harrison Hinds Jones Lauderdale Lee Marshall Tallahatchie	Boyd Daviess Fulton Daviess Harlan Jefferson Johnson Mason Scott  Beauregard Caddo De Soto Natchitoches Ouachita Rapides Washington  Maine  Maine  Maine  Maryland  Allegany Montgomery  Massachusetts  Massachusetts  Massachusetts  Maryland  Allegany Montgomery  Massachusetts  Massachusetts  Massachusetts  Maryland  Maryland  Massachusetts  Maryland  Massachusetts  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland  Maryland	Boyd   Beil   Boyd   Daviess   Fulton   Daviess   Fayette   Fayette   Fulton   Jefferson   Jefferson   Jefferson   Johnson   Mason   Scott   Scott   Scott

Table 1.—List of countres, or districts, in which, as of January 1, 1922, 1923, 1924, 1925, and 192, respectively, rural sections were provided with health service under whole-time local health officers—Continued

1922	1923	1924	1925	1926
	1	MISSOURI		
Freene itsper	Cape Ghardeau Dunklin Gentry Greene Jasper Monroe New Madrid Nodaway Pettis Polk St. Francois	Dunklin Gentry Greene New Madud Nodaway Pettis Polk St. Francois St. Louis	Dunklin Gentiy Greene New Madrid Nodaway Pettis Polk St. Francois St. Louis	Boone Dunklin Greene Jackson New Madrid Nodaway Pemseot Pettis Polk St Francois St Louis
		MONTANA	Moral values and a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco	
Cascade Lewis and Clark Missoula Yellowstone	Cascade Lewis and Clark Missoula Yellowstone	Cascade Lewis and Clark Missoula	Cascade Lewis and Clark Missoula	Cascade Lewis and Clark Missoula
		NEW MEXICO	,	
Bernalillo Chaves San Miguel Santa Fe Torrance Union Valencia	Bernalillo Chaves Dona Ana Eddy San Miguel Sante Fe Union Valencia	Bernatillo Chaves Coliny Dona Ana Eddy McKinley San Miguel Santa Fe Union Valencia	Bernalilo Chaves Colfax Dona Ana Eddy McKinley San Miguel Santa Fe Union Valencia	Bernalillo Chaves Colfax Dona \una Eddy McKinley Suntu Fe Union Valencia
		NEW YORK		The second district of the second second second second second second second second second second second second second second second second second second second second second second second second second second second seco
	1	Cattaraugus	Cattaraugus	Cattaraugus
Manager or annual comment of the or annual comment	• • • • • • • • • • • • • • • • • • •	NORTH CAROLINA		an far and a manager process assumes the
Bertie Bluden Buncombe Cabarrus Columbus Craven Crawen Cumberland Davidson Durham Edgecombe Forsyth Granville Guilford Halifar Lenoir Mecklenburg New Hanover Northampton Pamilico Pitt Robeson Rowan Sampson Surry Vance Wake Wayne Wilkes Wilson	Bertie Bladen Buncombe Cabarrus Carteret Columbus Craven Cumberland Davidson Durham Edgecombe Forsyth Granville Guilford Halifax Lenoir Mecklenburg New Hanover Northampton Pitt Robeson Rowan Sampson Surry Vance Wake Wake Walyne	Beaufort Bertie Bladen Brunswick Buncombe Cabarrus Columbus Craven Cumberland Davidson Durham Edgecombe Forsyth Granville Guilford Halifax Henderson Hyde Lenor Miceklenhurg New Hanover Northampton Pamilico Pitt Robeson Rowan Surry Vance Wake Wayne Wilkes Wilson	Beanfort Bortie Bladen Brunswick Buncombe Cabarrus Columbus Craven Cumberland Davidson Durham Edgecombe Forsyth Granville Guillord Haliax Henderson Hyde Lenoir Mecklenburg New Hanover Northampton Pamlico Pattle Itichmond Robeson Rowan Rowan Rutherford Sampson Surry Vance Wake Wilkes Wilkes	Beautort Bertie Binden Brunswick Buncombe Cabarrus Columbus Caven Cumberland Davidson Durham Edgecombe Forsyth Granville Guillord Hahfax Henderson Johnston Lenoir Mecklemburg New Hanover Northampton Pamlico Pitt Richmond Robeson Rowan Rutherford Sampson Surry Yance Wake Wayne Wilkes

Table 1.—List of counties, or districts, in which, as of January 1, 1922, 1923, 1924, 1925, and 1926, respectively, rural sections were provided with health service under whole-time local health officers—Continued

1922	1923	1924	1925	1926
		оню		
Allen Ashtahula Belmont Butler Champaign Chempaign Clermont Clinton Columbiama Coshecton Crawford Cuyahoga Erie Greene Hamilton Highland Hocking Lake Lorain Lucas Madison Mahoning Marion Minmi Monroe Moortow Muskingum Paulding Ross Sandusky Scroto Stark Steneca Shelby Stark Trumbull Union Washington Wayne Woorl	Allen Ashtabula Auglaize Belment Butler Champaign Clermont Clinton Columbiana Coshocton Craw ford Cuyahoga Erie Hamilton Hocking Huron Lake Lorain Lucas Madison Mahoning Marion Marion Marion Marion Marion Marion Marion Marion Marion Marion Marion Marion Marion Marion Marion Marion Marion Marion Morrow Morrow Muskingiin Paulding Perry Ross Sandusky Scioto Seneca Shelby Stark Summit Trumbull Tuscarawas Union Washington Wayne Wood	Allen Ashtabula Athens Auglaize Belmont Butter Clermont Columbiana Coshocton Crawford Cuyahoga Erie Geauga Hamilton Hancock Hocking Huron Lake Lorain Lucas Mahoning Marion Meys Mercer Miami Montgomery Morrow Muskingum Paulding Perry Richland Ross Sandusky Scioto Seneca Shelby Stark Summit Trumbull Tuscarawas Union Wayne Wood	Allen Ashtabula Athens Belmont Butler Clermont Clinton Columbiana Coshocton Crawford Cuy ahoga Delaware Erie Fayette Franklin Geanga Hamilton Hancock Hocking Huron Lake Loran Lucas Mahoning Marion Meigs Mercer Miami Montgomery Morrow Muskingum Paulding Perry Richland Ross Sandusky Scioto Seneca Shelby Stalk Summit Trumbull Tuscarawas Union Washington Wayne Wood	Allen Ashtabula Athens Belmont Butler Clermont Clintonb Columbiana Coshocton Crawford Cuyahoga Delaware Erne Fayette Franklin Geauga Hamilton Hancock Horking Huron Jefferson Lake Lorain Lucas Mahoring Marion Meigs Mercer Miami Montgomery Morrow Minskingum Perry Richland Ross Sandusky Scoto Seneca Shelby Stark Summit Trumbull Tuscarawas Union Washington Wayno Wood
and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t		OKLAHOMA		
Ottawa	Ottawa	Ottawa .	Carter Leflore Muskogee Oklahoma Pittsburg	Carter Leflore McCurtain Aluskogee Oklahoma Okmulgee Oitawa Pittsburg
		OREGON	-	
: ,	Coos	Coos	Claekamas Coos Douglas Jackson Klamath	Clackamas Coos Douglas Jackson Klamath

Table 1.—List of counties, or districts, in which, as of January 1, 1922, 1923, 1924, 1925, and 1926, respectively, rural sections were provided with health service under whole-time local health officers—Continued

1922	1923	1924	1925	1926
		SOUTH CAROLIN		
Charleston Cherokee Darlington Cairfield Freenville Newberry Orangeburg	Charleston Cherokee Darlington Fairfield Greenville Newberry Orangeburg	Aiken Anderson Charleston Cherokee Dillon Fairfield Greenville Newberry Orangeburg	Aiken Anderson Beaufort Charleston Cherokee Colleton Darlington Dillon Fairfield Georgetown Greenville Marion Newberry Orangehurg	Aiken Anderson Beaufort Charlesten Cherokee Colleton Darlington Dillon Fairfield Georgetown Greenville Greenwood Marion Newberry Orangeburg Spartanburg
		SOUTH DAKOTA		
Brown	Brown	Brown	Brown Pennington Yankton	Brown Pennington Yankton
		TENNESSEE		
Davidson Montgomery Roane Williamson	Davidson Gibson Montgomery Roane Williamson	Blount Davidson Gibson Montgomery Oblon Roane Sevier Williamson	Blount Davidson Gibson Montgomery Obion Roane Rutherford Sevier Williamson	Blount Davidson Dyer Gibson Hamilton Montgomery Oblon Roane Rutherford Sevier Weakley Williamson
		TEXAS		
Dallam Dallas Hidalgo Jefferson Terrant	Cherokee Dallam Dallas Hidalgo Jefferson Tarrunt	Dallam Hidalgo Jefferson Red River Tarrant Washington	Falls Hidalgo Nueccs Tarrant	Cameron Hidalgo Jefferson McLennan Tarrant
		UTAH		
Weber	Weber	Weber	Davis Weber	Davis

Table 1.—List of counties, or districts, in which, as of January 1, -1922, 1923, 1924, 1935, and 1926, respectively, rural sections were provided with health service under whole-time local health officers—Continued

1922	1923	1924	1925	1926
	***************************************	VERMONT 2		
First Second Chird Courth Fifth Sixth Seventh Sightl Vinth Fenth	First Second Third Fourth Fifth Suxth Seventh Eighth Ninth Tenth			
		VIRGINIA		
Albemarie Arlington Angusta Fairfax Fauquier Halifax Norfolk Tracewell Wise	Albemarie Arlington Augusta Fairfax Halifax Nansemand Norfolk Russell Wiso	Accomac Albemarle Arlington Augusta Fairfax Halifax Henrico James City Loudoun Nansemond Norfolk Princess Anne Russell Wise	Accomac Albemarle Arlington Augusta Brunswick Fairfax Halifax Henrico Isle of Wight James City Nansemond Northampton Wise	Accomac Albemaile Arlington Augusta Brunswick Fairlax Hallfax Henrico Isle of Wight Jumes City Nansemond Northampton Sussy Wise
3	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	WASHINGTON		
King Spokane Walla Wulla Yakima	Chelan King Spokane Yakima	Chelan King Spokane Walla Walla Yakıma	Chelan King Spokane Walla Walla Yakıma	Chelan King Walla Walla Yakima
,		WEST VIRGINIA		
Greenbrier Logan Mingo	Logan Marion Mingo Preston	Hancock Harrison Logan Mariou Preston Taylor	Gilmer Hancock Harrison Logan Marisn Marishall Preston Taylor	Gilmer Hancock Harrison Logan Marion Marshall Preston Roane
		WYOMING		
		Natrona	Natrona	- Natrona

² Districts.

Résuiné of table 1

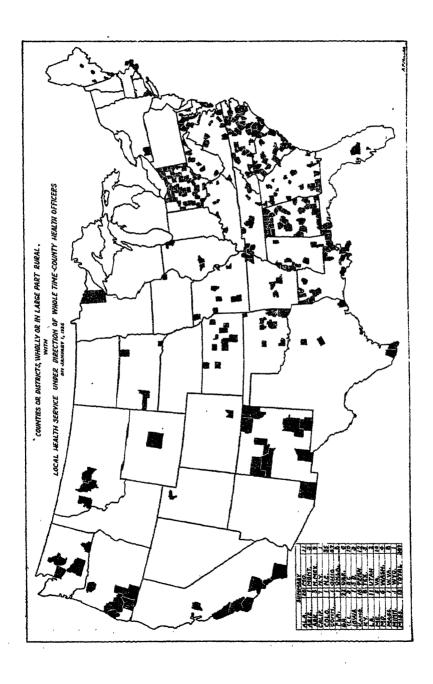
	Number of counties Jan 1-				1	Increase	Increase	Increase or	Increase
State '	1922	1923	1924	1925	1926	decrease in 1922	decrease in 1923	decrease in 1924	decrease in 1925
Alabama Arizona Arkansas	18 0 0	19 0	22 0 0	24 1 0	28 1 3	+1	+3	+2 +1	+4
California Colorado	1 0	4	5	6	7	- <del> -</del> 3	+1	+1	+3 +1 +1
Connecticut Florida Georgia	0 0 18	0 0 18	0 0 19	0	$\begin{array}{c} 1\\1\\22\end{array}$		+1	+1 +2	+1 +1
IdahoIlhnois		0	0	0 4	0 3 0	-3 +1 +1	i	+8	i
Indiana Iowa Karsus	1 8	. 1 1 8	0 2 8	0 2 6	10	7-1	+1	-2	-1 +4
Kentucky Louisiana Maine	8	8 7 5	9 10 5	8 9 5	11 5	1	+1 +3	-1 -1	+2
Maryland Massachusetts	1 1	1 1	3	6	6	+5	+1	+3	
Minnesota Mississippi Missouri	9 2	12 11	10 9		13	+3 +9	+1 -2 -2	+1	+2 +2
Montana New Mexico	7 0	8 0	10	10	9	+1	$\begin{array}{c} -1 \\ +2 \\ +1 \end{array}$		<u>-</u> -ī
North Carolina	29 40	29 42	33 45	35 47	35 47	+2	+4+3	$^{+2}_{+2}$	
Oklahoma Oregon South Carolina	0 7	1 1	1 9	5	5 16	+1	+2	+1 +4 +5	+3
South Dakota Tennessee	1 4	1 5	ī	3 9	12 5	+1	+3	+5 +2 +1 -2	+3 +1
Texas. Utah. Vermont	5 1 10	10	1 0	2 0	2	+1	-10	+1	
Virginia Washington	9 4 3	9 4	14	13 5	14 4 8	+1	+5 +1 +2 +1	-1 +2	+1 -1
West Virginia Wyoming	ő	0	1	1	1	71	+1		
Total	202	230	250	280	307	+23	+20	+30,	+27

The accompanying map shows the counties or districts in the United States in which, as of January 1, 1926, the rural sections were provided with local health service under whole-time local (county or district) health officers.

The net gain of 27 counties in 1925 is cause for encouragement to all persons interested in this much-needed, economical and effective development for the conservation and promotion of the health of the people of the United States. Most of the increases during the year were made in States in which the respective State health departments, with the cooperation of the United States Public Health Service or the International Health Board, or both, were enabled to give encouragement, technical advice, and financial assistance to county or district health departments.

Of the 307 counties or districts with local health service under whole-time local (county or district) health officers at the beginning of the present calendar year, 280, or 91 per cent, are receiving financial assistance for the support of their local health service from one or more of the following agencies: The State board of health, the United States Public Health Service, the International Health Board, the Childrens' Bureau of the United States Department of Labor.

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May 7, 1926 880

Without moral support and financial assistance from outside sources, local governments of rural communities (counties, towns, townships, or districts) evidently are not disposed to appropriate adequately for the support of efficient, whole-time, local health service. As health conditions in a rural community in one State materially influence those in other communities in that State and in other States, it seems not illogical that the local authorities should think, as many do, that the State and the Federal Government should participate in the development and maintenance of efficient, economical, official, local health service.

At the rate of progress made since 1920, it will take about 85 years for whole-time rural health service to be extended to all communities of the United States in which such service is needed.

Experience indicates that the proper foundation for rural health service in the United States is the county health department under the direction of the qualified whole-time county health officer. It becomes more and more evident to those with practical experience in the public health field that agencies concerned with the promotion of specialized health activities, such as typhoid fever prevention, hookworm control, tuberculosis prevention, malaria control, venereal disease prevention, or child and maternity hygiene, can perform most effectively and economically by dovetailing their specific activities in with and making them a part of a well-balanced, comprehensive program of local official health service under the immediate direction of qualified, whole-time local health officers.

The present budgets for the support of the health service covering the rural communities and some of the incorporated cities and towns in the counties and districts designated in the 1926 column of Table 1 total \$4,333,298.77. Of the total local population receiving this service, 3,884,193, or 32.7 per cent, are urban. Therefore, about \$2,916,000 of the total investment for the local health service in these 307 projects will be expended this year for strictly rural health service.

Reasonably adequate whole-time rural health service throughout this country would cost about \$20,000,000 a year, and, based on the value of a human life when lost unnecessarily, the cost of preventable illness and the loss of earnings due to the same cause, would effect a saving to the people of over \$1,000,000,000, or a net saving every year of over \$980,000,000.

Table 2 presents, by States, the percentage of rural population having local health service under the direction of whole-time local (county or district) health officers at the beginning of 1926.

Table 2.—Percentage of rural population having, on January 1, 1926, local health service under whole-time local (county or district) health officers

State	Rural popu- lation. (Census 1920)	direction of	Percentage of rural population with local health service under direc- tion of whole- time health officers
alabama	1, 838, 857	916, 715	49.85
rizona.	216, 635	27,344	12.62
Arkansas	1, 461, 707	85, 414	5.81
Daliforma	1,095,132	287, 592	26.26
Colorado	486, 370	13, 913	2.86
Jonnecticut	444, 292	11, 475	2.86 2.58
Delaware	102, 236	0	Ō
Morida	612, 645	27, 396	4.47
leorgia	2, 167, 973	409, 934	18.90
daho	312, 829	0	1 0
llinois	2, 082, 127	141.887	6.95
ndiana	1, 447, 535	0	9
owa	1, 528, 526	19, 121	1.25
Zansas	1, 151, 293	152,797	13.27
Keniucky.	1,783,087	142, 948	8.01
Joursiana	1, 170, 346	258, 983	22.12
Maine	168, 445	25, 631 225, 038	5, 47 38, 78
Maryland		16, 562	8.19
Massachusetts Michigan		10, 302	0.19
Minnesota		50,898	3.81
Wississippi		307, 881	19.85
Missouri	1 917 159	308, 858	16.99
Montana	1, 817, 152 376, 878	32,711	8 67
Nebraska	891,066	0	0
Vevada	62, 153	Ŏ	0
New Hampshire	62, 153 163, 322	Ŏ	0
New Jersey	680, 964	0	8
New Mexico		105, 521	35.72
New York	1,795,383	30,708	2, 21
North Carolina	2,068,753	975, 915	47.17
North Dakota	558, 633	0	0
Ohio	2, 082, 258	1, 269, 558	60.97
Oklaboma		245,618	16, 49
Oregon		80,896	20.6
Pennsylvania		0	n
Rhode Island		701 700	42.5
South Carolina	1, 389, 737	591, 180	6.00
South Dakota		32, 124	19.75
Tennessee Texas		340, 535 136, 031	4.31
Utah		22, 100	9.45
Vermont		0	0.3
Virginia	1, 635, 203	319,849	19.56
Washington		136, 166	20.7
West Virginia	1,094,694	205, 427	18.76
Wisconsin	1, 387, 499	0	0
Wyoming	137, 054	3, 188	2. 32
, -		.	
Total	51, 406, 017	7, 969, 923	15, 50

The fact that over 84 per cent of our rural population is as yet unprovided with official local health service approaching adequacy is of portentous seriousness. It means that we are permitting a sacrifice of the health and lives and the material resources of many of our people every year—a sacrifice which is needless because preventable and preventable by measures readily within our means and demonstrated to be in the highest sense economical. It clearly deserves the prompt and vigorous attention of all who are genuinely interested in our national welfare.

### PUBLIC HEALTH ENGINEERING ABSTRACTS

Simple Large-Scale Incineration in the Tropics. A. L. Otway. Journal of the Royal Army Medical Corps, vol. 46, No. 2, February, 1926, pp. 120-129. (Abstracted by R. C. Beckett.)

Incinerators were constructed out of "swish," a form of African red earth, which, after being dampened and puddled, sets like a terra cotta brick of loose texture and is used by the native population for making houses and fish ovens.

Plans of incinerator units are given, each unit being 3 feet in diameter and 50 inches high, with 9-inch walls. Inside removable forms are used. Two holes at the bottom of the incinerator serve for ventilation. Iron bars 4 inches apart are set 1 foot above the ground into side walls when the first layer of "swish" is laid. Additional layers are added until full height of incinerator is reached.

Thirty such incinerators, operated by 15 native boys, burn 36 one-ton truck loads. Each boy operates two incinerators and one "house," which is a storage bin made of thatch with a "swish" floor. Five barrow boys wheel the ashes to the field and one boy spreads the edges. One man supervises the natives.

The utility of the "swish" incinerator is its cheapness and particularly its mobility. Units can be constructed adjacent to the edge of the ash field and moved when necessary or new ones constructed.

The cost per annum for operating these units is \$1,800.

Progress of Sewage Disposal Program at Chicago.—I. Edward J. Kelly, chief engineer of the Sanitary District of Chicago. *Engineering News-Record*, vol. 96, No. 9, March 4, 1926, pp. 363-366. (Abstracted by C. C. Ruchhoft.)

The progress in carrying out an engineering program suggested by 28 consultants is indicated. Following years of litigation, a permit to divert an annual average of 8,500 second-feet of waters, from Lake Michigan for five years was granted to the sanitary district on March 3, 1925, by the Secretary of War. This permit was granted on the condition that sewage works to provide 100 per cent treatment of the waste of 1,200,000 people be completed in that time.

The Sanitary District of Chicago includes the city of Chicago and 49 cities and villages in the neighborhood, with a total area of 437.39 square miles. The present population of the district is 3,355,000, with an additional industrial waste equivalent of 1,600,000. The capacity of the entire dilution system of sewage disposal is at present outgrown, and will be exceeded by 126 per cent by 1945, at which time the total equivalent population will be 6,785,000.

Extensive studies of artificial sewage disposal have been made since 1908. Experiments with domestic sewage, stockyards waste,

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tanning-industry wastes, and corn-products wastes have been carried on in testing stations operated for several years each. These studies have cost over \$500,000 to date, and resulted in a definite program for the treatment of wastes in very large quantities.

The six major projects of the district are as follows:

- 1. The Des Plaines River Sewage Treatment Project, which is in part an experimental activated sludge plant, has been operating since 1922. It will provide for a population of 105,000 by 1945. The cost to date has been \$3,270,000, while future additions will cost \$570,000.
- 2. The Calumet Project, consisting of Imhoff tanks, activated sludge units, trickling filter units, pumping stations, power plant, and tributary sewers, is now completed. Large-scale experiments have been made at this plant treating the domestic sewage of a population of 192,500. The project was built at war prices under unfavorable labor conditions and cost \$17,360,000. Future extensions, with the addition of trickling filters, will cost \$5,061,000.
- 3. The North Side Project, which will serve an area of 62 square miles, with an estimated population of 1,450,000 by 1960, is now under construction. This will be the largest activated sludge plant ever built. It will be completed in 1928, and will cost \$27,433,000, including the cost of the collecting sewerage system.
- 4. The West Side Project, which will serve an area of 57.5 square miles, with a present population of 1,365,000, will include Imhoff tanks and sludge drying beds. Additional sludge digestion chambers, with a capacity to receive the sludge from both the north and west side plants and an 18-mile sludge line from the north side plant, are being considered. The entire project is to cost \$25,261,000, and is to be completed in 1930.
- 5. The fifth major project includes the treatment of wastes from the corn-products industry, the Stock Yards, and Packing Town. The plan contemplates fine screening at the Stock Yards and further treatment at the southwest side treatment works. Trickling filters are to be built at Argo to treat the corn-products wastes.
- 6. The Southwest Side Project, serving an area of 59 square miles, with an estimated population of 1,322,000 by 1945, contemplates the construction of activated sludge units or trickling filters supplementary to sedimentation tanks. The project is scheduled for 1940, at an estimated cost of \$19,115,000.

The program also includes a number of disposal plants for the 49 outlying towns located to obtain economical solutions for these problems. Complete treatment at a cost of \$11,786,000 is planned.

Governor's Commission Solves the Milk Controversy.—Anon. Illinois Health News, vol. 12, No. 2, February, 1926, pp. 48-51. (Abstracted by I. W. Mendelsohn.)

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The report in full of the commission appointed to consider the milk situation in Chicago and the Chicago Dairy District of Illinois presents a plan for tuberculin testing and eradication of tuberculosis and Pasteurization which was approved and is now being carried out. The following is among the provisions of this plan: "The program of proper Pasteurization is essential and it and tuberculosis eradication should go forward together."

The committee recommends the following:

- (a) The extension of Pasteurization to the entire milk supply of all cities of 10,000 or over.
- (b) The investigation to determine the feasibility of Pasteurization of the milk supplies of cities between 2,000 and 10,000 inhabitants.
- (c) The promotion of home Pasteurization on the farm and in towns or villages with less than 2,000 inhabitants.
- (d) The laws and ordinances of the State and cities of the State should be so extended as to promote proper Pasteurizaton in those places where the process is not now properly done.

The promotion by all means possible of Pasteurization of all skim milk, buttermilk, and whey used as feed for calves, hogs, chickens, and human beings as a measure of complete tuberculosis eradication.

To continue a committee to act as an advisory board to those legally in charge of the operation of the tuberculosis-eradication laws of the State and Federal Governments, to assist in the carrying out of this agreement, and to advise with producers, distributors, and consumers for the purpose of expediting the eradication of tuberculosis in Illinois.

### DEATH RATES IN A GROUP OF INSURED PERSONS

RATES FOR PRINCIPAL CAUSES OF DEATH FOR JANUARY, 1926—PER CENT OF DISBURSE-MENTS ON ACCOUNT OF SPECIFIED IMPORTANT CAUSES, 1925

The accompanying tables are taken from the Statistical Bulletin for February, 1926, published by the Metropolitan Life Insurance Co., and present the mortality experience of the industrial insurance department of the company for January, 1926, as compared with January, December, and year 1925, and the percentage of the 1925 disbursements made on account of specific causes of death. The rates are based on a strength of approximately 17,000,000 insured persons.

Health conditions in this group were a little less favorable in January, 1926, than in the same month last year, as indicated by the slight rise in the death rate from 9.7 per thousand in January, 1925, to 9.8 in 1926. These rates may be compared with 10 in 1924, 10.7 in 1923, 9.7 in 1922 and 1921, and 10.4 in 1920.

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The slight rise as compared with January of last year is attributed largely to an 8 per cent increase in the death rate for pneumonia. Increases were also recorded for influenza. Bright's disease, suicides, homicides, and automobile accidents.

There was also a considerable increase in mortality from measles, the rate being 9.5 per 100,000 in January, 1926, as compared with 2.3 per 100,000 in 1925.

The death rate for automobile accidents, 13.6 per 100,000, shows an increase of 21.4 per cent over the rate for January, 1925, which was 11.2 per 100,000.

Death rates (annual basis) for principal causes per 100,000 lives exposed, January, 1926, and January, December, and year, 1925

	Rate per 100.000 lives exposed ¹					
Cause of death	January, 1926	December, 1925	January, 1925	Year 1925 2		
Total, all causes	981 2	893. 9	970 9	906. 9		
Typhoid fever Measles Scarlet fever Whooping cough Diphtheria Influenza Tuberculosis (all forms) Tuberculosis (all forms) Tuberculosis of respiratory system. Cancer Diabetes mellitus. Cerebral hemorrhage. Organic diseases of heart Pneumonia (all forms) Other respiratory diseases Diarrhea and enteritis Bright's disease (chronic nephritis) Puerperal state. Suicides. Homicides Other external causes (excluding suicides and homicides). Traumatism by automobiles	9. 5 4. 0 6 6 11. 2 27. 1 91. 0 81. 4 69. 7 17. 6 60. 0 138. 0 147. 0 74. 8 14. 3 7. 5 9. 2 17. 2 18. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19. 3 19.	11.3 19.8 90.2 81.4 72.1 16.4 55.1 193.2 101.4 15.6 19.3 72.5 19.3 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10	97. 9 86 4 72. 0 19. 5 59. 6 145. 9 127. 1 17. 3 71. 7 14. 7 5. 8	21. 9 98. 0 85. 8 70. 5 15. 2 53. 5 126. 6		

All figures include infants insured under 1 year of age.
 Based on provisional estimate of lives exposed to risk in 1925.

### PERCENTAGE OF DISBURSEMENTS FOR PRINCIPAL CAUSES OF DEATH IN 1925

The following table shows the percentages of the total amount of death claims in 1925 paid on account of deaths from specified diseases and conditions.

Diseases of the heart were responsible for larger claim disbursements than any other cause. This is the second successive year in which the amount paid for deaths from cardiac disease has exceeded that for tuberculosis, which, up to and including 1923, was the leading cause of death from the standpoint of death-claim disbursements. The combined death claims from heart disease, cerebral hemorrhage,

and chronic nephritis—the three principal cardiovascular-renal conditions—amounted to 26.2 per cent of the total sum disbursed. It is remarked that, as these diseases are not as amenable to control as the infectious diseases, this high ratio is likely to increase from year to year.

Tuberculosis was the cause of one-ninth of the total death claims paid to beneficiaries. In 1924 tuberculosis claims amounted to one-eighth of the total.

	Per cent of total		
Disease or condition		1925	
All causes of death	100. 0	100. 0	
Diseases of the heart 'uherculosis (all forms) Tuber culosis of respiratory system influenza and pneumonia Influenza Pneumonia (all forms) 'ancer (all forms) 'ancer (all forms) 'bronic nephritis 'crebral hemorrhage (apoplexy) 'unerperal state 'typhoid fever Potal Lyternal causes Suicides Homicides Accidents	13. 5 11. 2 10. 2 9. 9 2. 3 7. 6 9. 5 7. 7 1. 0 1. 1 1. 2 1. 2 1. 3 2. 0 1. 1 9. 2	13. 5 12. 3 11. 4 9. 5 1. 7 7. 7 9. 4 7. 0 6. 6 1. 7	
Accidental drowning Traumatism by fail Railroad accidents Automobile accidents Other accidents	1. 0 1. 0 2. 4 3. 9 28. 0	.9 1.1 .9 1.9 4.2	

### COURT DECISIONS RELATING TO PUBLIC HEALTH

Rules of city board of education for prevention of communicable discuscs in schools upheld.—(Minnesota Supreme Court; Stone v. Probst et al., 206 N. W. 642; decided December 24, 1925.) Chapter 18 of the charter of the city of Minneapolis provided, among other things, that "It [the city board of education] shall have the entire control and management of all the common schools within the city * * and make rules and regulations for the government of the schools." The board of education adopted rules which, among other things, required that principals and teachers be on the alert to discover suspected contagious diseases, filth, or vermin, and physical and mental defects. Medical examination was not made against conscientious objection, but where such examination was necessary for the protection of the health of other children the child was excluded until it presented the same evidence required of other children who were excluded because of infectious disease.

The plaintiff's daughter was excluded from school because of illness with a throat infection. She was entitled to return upon furnishing

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the school authorities with a negative report from a throat culture submitted to the city public health authorities and upon presenting a certificate from a physician as to the condition of her throat or submitting to a physical examination by the regularly employed school physicians or nurses. Refusal to comply with the conditions was based upon conscientious objections incident to being a Christian Scientist. The plaintiff sought a writ of mandamus to compel the admittance of his daughter, but the lower court dismissed the action. On appeal the supreme court held that the language of the charter by fair implication conferred upon the board of education the power to make and enforce the rules involved, and that the rules were made in good faith and were not unfair, arbitrary, or unreasonable, and hence could not be disturbed by the courts. The following is a portion of the court's opinion:

This controversy arises from a sore throat. The teacher could not be expected to determine if it was ordinary, or streptococcic, or the early stage of some other contagious or infectious children's disease. We must recognize that one child may quickly spread a disease among the many children it comes in contact with in school. It seems more reasonable to us to have the rules applicable in preventing as well as in controlling an epidemic. The court should not attempt to substitute its judgment as to what the rules should be, when operative, or the period of operation. In fact, these rules do not really exclude any one except by his own volition. The record in this case merely placed before plaintiff a condition to his child's admission to the school. The condition required is a certificate of a physician, and, in case of sore throat or suspected diphtheria, a negative report from a culture submitted to the division of public health. The school furnishes facilities for acquiring the necessary information ifthe child will submit to medical examination by the school authorities. of us may have to subordinate our own ideas or views to governmental authority. and the requirement calls for cooperation without requiring anyone to surrender his own views or conscientious objection thereto. The child is required to remain away if he will not submit to the rule. The board asks only for such information as it deems necessary in the proper administration of the schools. Thisinformation would result in exclusion only in the event that the child himself was a menace to his associates. The board provides a way for the child to qualify for admission without any cost or expense. The matter is entirely in his own hands.

City board of health estopped to refuse license for chicken abattoir.—
(New Jersey Supreme Court; Garber v. Board of Health of City of Paterson et al., 131 A. 638; decided January 21, 1926.) The relator made application to the board of health of the city of Paterson for a license to operate a chicken abattoir at a designated location in the city. At a meeting of the board a motion was carried that the license be granted upon the completion of the construction of the building, provided such construction was in conformity with plans as submitted to the health director. The relator proceeded with his repairs and improvements under the inspection of a health officer and obtained from time to time the necessary certificates that the

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work was properly done and according to regulations. Large sums were expended by him and finally the building was completed. The relator then appeared at a meeting of the board of health with his certificates, ready to take and pay for his license. The board then adopted a motion refusing the license, whereupon the relator sought by mandamus to compel the issuance of such license to him. The court decided that there had been a definite grant of the license, subject merely to the condition subsequent that the relator should put the premises in such condition as to satisfy the regulations of the board of health relating to chicken abattoirs, and held that, the relator having complied with the condition imposed, the board had estopped itself from later denying such license. The court also held that an ordinance prohibiting any chicken abattoir at any place "not heretofore licensed, unless the applicants show that it is not within 50 feet of any building used wholly or in part as a dwelling," which said ordinance was passed by the board between the dates of the conditional grant of the license and the attempted refusal thereof, was not controlling on the relator or on the board with reference to the relator's license.

City held liable for injury caused by sewage pollution of stream.—
(Oklahoma Supreme Court; City of Collinsville v. Brickey, 242 P.
249; decided November 3, 1925.) The plaintiff in the lower court brought action against the city of Collinsville to recover damages for injury to her dairy business caused by the pollution of a stream running through her property, such pollution being due to the discharge of sewage from the city into the stream. The jury returned a verdict in favor of the plaintiff and the judgment on the verdict was affirmed by the supreme court.

## CIVIL SERVICE EXAMINATION FOR ASSISTANT STATISTICIAN

The United States Civil Service Commission announces an open competitive examination for assistant statistician (public health) to fill vacancies in the United States Public Health Service, for duty in Washington, D. C., and in the field.

The entrance salary for this position in the District of Columbia is \$2,400 a year. After the probational period required by the civil service act and rules, advancement in pay without material change in duties may be made to higher rates within the pay range for the grade up to a maximum of \$3,000 a year. Promotion to higher grades may be made in accordance with the civil service rules as vacancies occur.

The duties, under general supervision, are to plan and carry out minor statistical investigations involving the use of technical statistical methods and a general knowledge of the epidemiology and the etiology of the more common diseases of man.

Competitors will be rated on their education and experience, and writings to be filed with the application.

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Receipt of applications for this position will close June 8, 1926.

Full information and application blanks may be obtained from the United States Civil Service Commission, Washington, D. C., or the secretary of the board of United States civil service examiners at the post office or customhouse in any city.

### DEATHS DURING WEEK ENDED APRIL 24, 1926

Summary of information received by telegraph from industrial insurance companies for week ended April 24, 1926, and corresponding week of 1927. (From the Weekly Health Index, April 27, 1926, issued by the Byreau of the Census, Department of Commerce)

•	Week ended Apr 24, 1926	Corresponding week 1925
Policies in force	64, 125, 650	59, 553, 173
Number of death claims	14, 073	12, 989
Death claims per 1,000 policies in force, annual rate	11. 4	11. 4

Deaths from all causes in certain large cities of the United States during the week ended April 24, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, April 27, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week en		Annual death rate per	Deaths ye	Infant mortality	
City	Total deaths	Death rate ¹	1,000 cor- respond- ing week 1925	Week ended Apr. 27, 1926	Corre- sponding week, 1925	rate, week ended Apr. 27, 1926 ¹
Total (68 cities)	8, 594	15. 5	14. 6	1,009	1,006	184
Albany 4	42	18.6	17.3	1	. 3	21
Atlanta	71			12	8	
White	39			6		
Colored Baltimore 4	32 262	( ⁵ ) 17. 3	15. 5	28	24	82
White	194	11.0	10.0	21	24	75
Colored	68	( ³ ) 19. <b>0</b>				114
Birmingham		19.0	16. 5	7 8 3 5	9	
White	28			3		
Colored	47	(4)		5		
Boston Bridgeport	275 38	18.4	16. 1	34 9	24	96 153
Buffalo.		16.9	18. 7	23	27	96
Cambridge	35	15.3	17.0	6	4	100
Camden	50	20.3	21. 1	ĕ	. ĝ	101
Chicago 4	715	12.4	13. 6	91	110	81
Cincinnati		21.0	19. 4	17	7	106
Cleveland	245	13.6	12.5	32	20	83 37
Columbus		14.5	13. 6	4	5 7	37
Dallas	56 47	15. 1	12.9	5	1 4	
Colored	9	(å)		2	}	
Denver		12.8	16. 9	6	8	
Des Moines	41		10.4	4	8	67
Detroit	471	19.7	12.5	70	70	113
Duluth	. 21	3.9	12.3	4	2	94
El Paso		21.4	22. 9	7	14	
Erie	31	1		. 5		
Fall River	71	28.7		14	6	203
Flint	29	11.6	8.0	5	5	83

¹ Annual rate per 1,000 population.
2 Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.

² Data for 62 cities.

² Data for 62 cities.
⁴ Deaths for week ended Friday, Apr. 23, 1926.
⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended April 24, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, April 27, 1926, issued by the Bureau of the Census, Department of Commerce)—Continued

	Week end	led Apr.	Annual :	Deaths	under 1	Infant
i	-1, -		death	•	-	mortality
City	Total deaths	Deatn rate	rate per 1,000 cor- respond- ing veek 1925	Wcek ended Apr. 27, 1926	Corrc- sponding week, 1925	rate,week ended
Fort Worth	12	4. 1	13 0 1	2 2	5	
White Colored	3	(3)		ő		
Grand Rapids	50	`í7 0	15 3	5	6	72
Houston	53	16. 8	17.7	10	13	,
White	38			7 3		
Colored	15 120	( ⁵ ) 17. 4	15. 5	3 14	9	102
White	98	11, 4	15. 5	9	1	
Colored	22			9 5		76 275
Colored Jacksonyille, Fla	51	25. 4	18. 9	6	, 5	125
White	25		!	5		165
Colored	26 82		12.7	1 13	9	57
Jersey City Kansas City, Kans White	82 42	13. 6 18. 9	13. 9	13	5	104
White	33	10. 9	10, 5	5	1	. 105
Colored Colored Los Angeles Lous Angeles Lous ville Lous ville White	9	(0)		ì		131
Kansas City, Mo	118	16.7	16. 2	12	14	
Los Angeles	218			23	27	64
Louisville	104	18.0	14.0	. 4	8	40
White Colored	81			3		. 188
Lowell	23 38	18.0	12.8	Š	2	149
Lym	19	9.6		2	1	50
Memphis	81	24. 2	19. 1	8	6	
White Colored	39			4		
Colored	42	(5)		4	22	100
Milwankee Minneapolis Nashville	143	14.9	16. 1 13. 2	22 15	17	102 83
Willingspoils	137	16.8 16.5	20.7	12	1 5	, 60
White	26	10.0		4		
Colored	17	(5)		3		
New Bedford	. 39	17.0	14.0	3	3	52 27
New Haven	41	11.9	15. 2	2 9	29	27
New Orleans White	134	16. 9	21. 6	: 3	29	1
Colored	73 61	(5)	-,	6		
New York	1,731	15.4	14.3	228	192	92
Bronx Borough	199	11.9	11.3	19	21	63
Brooklyn Borough	. 605	14.3	12.5	102	68	103
Manhattan Borough	. 685	18.4	19.3	70	86 15	103 77 136
Queens Borough	180 62	13. 1 23. 4	9.3 17.3	30	10 2	123
Newark, N. J	127	14.6	13.8	22	21	105
Richmond Borough Newark, N. J Norfolk White.	39	1		1 1	5	19
White	19		.	1		. 30
Colored	20	(5)		0		0
Oakland Oklahoma City	1 38	7.8	10.5	2	8 3	23
Omaha	23 74	18.2	19. 2	1 2	11	21
Paterson	44	16.2	12.1	27	5	122
Philadelphia	200	14.9	12.8	64	51	85
Pittsburgh Portland, Oreg Providence Richmond	203	16.8	17.0	30	33	100
roruand, Oreg	77	14. 2 17. 5	14.4	5 6 3 2	5 9	51 50
Riebmond	90 66	17. 0	15. 6 15. 1	9	10	38
White	42	1	1	2	10	39
Colored	. 24	(5)		ī		. 35
Rochester.	97	(5) 16. 0	17.4	11	12	88
St. Louis	. 258	10.4	14.4	21	14	
St. Paul Salt Lake City	. 74 26	15. 7 10. 4	16.3 11.1	21 2 3	10	18 41
San Antonio	53	14.0	16.1	9	15	91
San Diego	. 27	13.3	17.7	3	2 7	63 60
San Francisco	153	14.3	4114	10		

Deaths for week ended Friday, Apr. 23, 1926.
In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31. Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 20, Norfolk 38, Richmond 32, and Washington, D. C., 25.

891 May 7, 1926

Deaths from all causes in certain large cities of the United States during the week ended April 24, 1936, injant mortality, annual death rate, and comparison with corresponding week of 1935. (From the Weekly Health Index, April 27, 1926, issued by the Bureau of the Census, Department of Commerce)—Continued

,	Week en 24.	ded Apr. 1926	Annual death	Deaths ye	Infant mortality	
City	Total deaths	Death rate	rate per 1,050 cor- respond- ing week 1925	Week ended Apr 27, 1923	Corre- sponding week, 1925	rate, week ended Apr. 27, 1926
Schenectady Seattle Somerville Spokane Springfield, Mass Syracuse Tacoma Toledo Trenton Utica White Colored Waterbury Wilmington, Del Worcester Yonkers Youngsjown	21 38 49 22 98 43 31 126 76 50 29 42 65 24	15. 7  15. 8  10. 1  13. 9  14. 0  17. 8  19. 0  15. 9  13. 2  (5)  17. 9  17. 8  11. 0  14. 4	14. 0 13. 2 13. 9 14. 3 14. 3 14. 3 12. 7 20. 5 16. 8 5, 6 8, 3 9, 8	3 4 0 2 2 2 3 0 6 9 0 11 4 1 7 5 7 6 8 8	5 2 2 1 11 5 7 7 3 21	87 37 0 47 29 38 0 58 150 0 63 33 128 107 164 69 180

⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31, Baltimore 15, Birmingham 30, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans, 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 20, Norfolk 38, Richmond 32, and Washington, D. C., 25.

## PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

### UNITED STATES

## CURRENT WEEKLY STATE REPORTS*

These reports are preliminary and the figures are subject to change when later returns are received by the State health officers

### Reports for Week Ended May 1, 1926

ALABAMA	Cases	ABKANSAS-continued	Cases
Cerebrospinal meningitis	3	Measles	. 24
Chicken pox		Mumps	
Diphtheria		Ophthalmia neonatorum	. 2
Influenza		Pellagra	
Malaria		Scarlet fever	. 2
Mensles		Smallpox	
Mumps		Tuberculosis	
Pellagra		Typhoid fever	
Pneumonia		Whooping cough	
Poliomyclitis			
Scarlet fever		CALIFORNIA	
Smallpox		Cerebrospinal meningitis:	
Tetanus		Long Beach	. 1
Trachoma		Sacramento	
Tuberculosis		Chicken pov	
Typhoid fever		Diphtheria	
Whooping cough		Influenza	
		Mensles	
ARIZONA		Mumps	
Chicken pox		Poliomyelitis.	
Diphtheria		Alhambra	. 2
Influenza		Los Angeles.	
Measles		Scarlet fever	
Pneumonia		Smallpox:	
Scarlet fever		Los Angeles	. 19
Trachoma	. 1	Oakland.	. 10
Tuberculosis		Scattering	
Typhoid fever	. 2	Typhoid fever	
Whooping cough	_ 11	Whooping cough	62
ARKANSAS		COLORADO	•
Chicken pox	40	Chicken pox	. 36
· Diphtheria		Diphtheria	
Hookworm disease	. 2	German measles	. 7
Influenza		Influenza	
Malaria		Measles	. 30
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4	92)	

### Reports for Week Ended May 1, 1926-Continued

COLORADO—continued	_ 1	GEGRCIA	~
	Cases		Cases
Mumps	. 1.	Chicken pox	47
Pneumonia	. 2	Conjunctivitis (acute)	1
Scarlet fever	. 27	Dengue	1
Tuberculosis	29	Diphtheria	14
Typhoid fever	1	Dysentery	7
Vincent's angina		Hookworm d.scase	3
		Influenza	58
Whooping cough	. 26		
CONNECTICUT		Malaria	11
CONNECTACE	1	Measles	142
Cerebrospinal meningitis	. 1	Mumps	10
		Pellagra	14
Chicken pox		Pneumonia	44
Conjunctivitis (infectious)		Scarlet fever	6
Diphtheria	. 19	Septic sore throat	10
Dysentery (bacillary)	. 2	Smallpox	25
German measles	. 10	Tubel culosis	72
Influenza	. 20		
Lethargic encephalitis.		Typhoid fever	9
Measles		Whooping cough	25
Mumps		IDAHO	
Description (house)			
Pneumonia (broncho)		Cerebrospinal meningitis:	
Pneumonia (lobar)		Blackfoot	1
Scarlet fever		St. Maries	1
Septic sore throat	. 1	Chicken pox	8
Tuberculosis (all forms)	. 48	Diphtheria	6
Typhoid fever	. 1	Influenza.	1
Whooping cough		Measles	11
		Mumps	19
DELAWARE			4
	. 5	Pneumonia.	_
Chicken pos		Rocky Mountain spotted fever	1
Diphtheria		Scarlet fever	11
Influenza		Smallpox	3
Measles		Tuberculosis	1
Pneumonia	. 2	Typhoid fever	7
Scarlet fever	. 12	Whooping cough	14
Tuberculosis		4	
Typhoid fever		ILLINOIS	
Whooping cough	. 5	Cerebrospinal meningitis:	
whooping coagnitions			1
DISTRICT OF COLUMBIA		Boone County.	
		Cook County	1
Chicken pox		Rock Island County	
Diphtheria	. 14	St. Clair County	1
Lethargic encephalitis	_ 1	Diphtheria	69
Measles	. 630	Influenza	43
Pneumonia	. 43	Lethargic encephalitis:	
Scarlet fever		Clay County	1
Tuberculosis	_ 24	Cook County	1
Whooping cough.		Measles	1. 110
11 100/mg coogn	. 00	Pneumonia	
FLORIDA		Poliomyelitis—Richland County	
	425		
Chicken pox		Scarlet fever	
Diphtheria		Smallpox	
Influenza	. 3	Tuberculosis	
Lethargic encephalitis	_ 1	Typhoid fever	26
Measles		Whooping cough	
Mumps		1 %	
Pneumonia		INDIANA	
Scarlet fever	-	Anthrax—Randolph County	. 1
Smallpox		Chicken pox.	
Tuberculosis		Diphtheria	
Typhoid fever		Influenza	
Typhus fever		Measles.	. 1,35
Whooping cough.	_ 40	Pneumonia	18

### Reports for Week Ended May 1, 1926-Continued

INDIANA—continued	Cases	MARYLAND—continued	Cases
Poliomyeluis		Scarlet tever	
Scallet fever		Septic sore throat	
smallpox.		Trachoma	
Tuberculosis		Tuberculosis	
Typhoid tever		Typhoid fever	
Whooping cough		Typhus fever	
	110	Vincent's angina	
KANSAS		Whooping cough	
Chicken pox	122		. 20
Diphtheria		MASSACHUSETTS	
Dysentery (amebic)	1	Cerebrospinal meningitis	3
German measles		Chicken pox.	117
Influenza	19	Conjunctivitis (suppurative)	
Measles	825	Diphtheria	
Mumps	23	Dysentery	
Pneumonia		German measles	405
Searlet fever	65	Influenza	
Smullpox		Leprosy	
Tuberculosis	60	Lethargic encephalitis	
Typhoid fever	3	Measles	
Whooping cough		Mumps	
LOUISIANA		Ophthalmia neonatorum	
LOUISIANA		Pneumonia (lobar)	
Cerebiospinal meningitis	. 1	Pohomyelitis	
Diphtheria	. 9	Scarlet fever	
Influenza	. 10	Septic sore throat	
Measles	13	Trachoma	2
Pneumonia		Tuberculosis (pulmonary)	164
Scarlet fever	23	Tuberculosis (other forms)	29
Smallpox	. 14	Typhoid fever	
Tuberculosis	. 19	Whooping cough	
Turnburd forms			200
T & Little Beach.	10	1	
Typhoid fever Whooping cough	10	MICHIGAN	
Whoeping cough	10	MICHIGAN Diphtheria	60
Whooping cough	17	MICHIGAN Diphtheria	60
Whooping cough  MAINE Chicken pox	20	MICHIGAN Diphtheria	60
Whooping cough  MAINE Chicken pox  Diphtheria	20 2	MICHIGAN  Diphtheria	60 1, 476
Whooping cough  MAINE Chicken pox  Diphtheria German measles	20 2 65	MICHIGAN  Diphtheria Measles Pneumonia Scatlet fever Smallpox	60 1, 476 179
Whooping cough  MAINE Chicken pox Diphtheria German measles. Influenza	20 2 65 409	Michigan  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis	60 1, 476 179 238
Whooping cough  MAINE Chicken pox Diphtheria German measles Influenza Measles	20 2 65 409 316	Michigan  Diphtheria Measles Pneumonia Scarleí fevor Smallpox Tuberculosis Typhoid fever	60 1, 476 179 238 5
Whooping cough  MAINE Chicken pox Diphtheria German measles Influenza Measles Mumps	20 2 65 409 316 37	Michigan  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis	60 1, 476 179 238 5 310
Whooping cough  MAINE Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia	20 2 65 409 316 37 37	Michigan  Diphtheria	60 1, 476 179 238 5 310 9
Whooping cough  MAINE Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis	20 2 65 409 316 37 37	Michigan  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	60 1, 476 179 238 5 310 9
Whooping cough  MAINE Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever	20 2 65 409 316 37 37 1	Michigan  Diphtheria Measles Pneumonia Scatlet fevor Smallpox Tuberculosis Typhoid fever Whooping cough  Minnesota Chicken pox.	60 1, 476 179 238 5 310 9 147
Whooping cough  Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis	20 2 65 409 316 37 37 1 15 8	MICHIGAN  Diphtheria	60 1, 476 179 238 5 310 9 147
Whooping cough  Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Vincent's angina	20 2 65 409 316 37 37 1 15 8	Michigan  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA  Chicken pox Diphtheria Influenza	60 1,476 179 238 5 310 9 147
Whooping cough  Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Vincent's angina	20 2 65 409 316 37 37 1 15 8	Michigan  Diphtheria Measles Pneumonia Scarlet fever Small pox Tuberculosis Typhoid fever Whooping cough  MINNESOTA Chicken pox Diphtheria Influenza Lethargic encephalitis	60 1, 476 179 238 5 310 9 147 85 39 3
Whooping cough  MAINE  Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Vincent's angina Whooping cough	20 2 65 409 316 37 37 1 15 8	Michigan  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA Chicken pox Diphtheria Influenza Lethargic encephalitis Measles	60 1, 476 179 238 5 310 9 147 85 39 3 1
Whooping cough  MAINE  Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Vincent's angina Whooping cough	20 2 65 409 316 37 37 1 15 8	Michigan  Diphtheria Measles Pneumonia Scarlet fevor Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA Chicken pox Diphtheria Influenza Lethargic encephalitis Measles Pneumonia	60 1, 476 179 238 5 310 9 147 85 39 3 1 454 4
Whooping cough  Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Vincent's angina Whooping cough  MARYLAND 1 Cerebrospinal meningitis	20 2 65 409 316 37 37 1 15 8	Michigan  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  Minnesota Chicken pox Diphtheria Influenza Lethargic encephalitis Pneumonia Poliomyelitis	60 1, 476 179 238 5 310 9 147 85 39 3 1 454 4
Whooping cough  MAINE  Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Vincent's angina Whooping cough	20 2 65 409 316 37 37 1 15 8 1 1 35	Michigan  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA  Chicken pox Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever	60 1, 476 179 238 5 310 9 147 85 39 3 1 454 4 1 237
Whooping cough  Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Vincent's angina Whooping cough  MARYLAND 1  Cerebrospinal meningitis Chicken pox Diphtheria	20 2 65 409 316 37 1 15 8 1 1 35	Michigan  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA  Chicken pox Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever Smallpox	60 1, 476 179 238 5 310 9 147 85 39 3 1 454 4 1 237 5
Whooping cough  Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Vincent's angina Whooping cough  MARYLAND 1  Cerebrospinal meningitis Chicken pox Diphtheria German measles	20 2 65 409 316 37 1 15 8 1 1 35	Michigan  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA  Chicken pox Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis.	60 1, 476 179 238 5 310 9 147 85 39 3 1 454 4 1 1 237 5 108
Whooping cough  Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Vincent's angina Whooping cough  MARYLAND 1  Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza	20 2 65 409 316 37 37 1 15 8 1 1 35	Michigan  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA  Chicken pox Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever	60 1,476 179 238 5 310 9 147  85 39 3 1 454 4 1 237 5 108
Whooping cough  Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Vincent's angina Whooping cough  MARYLAND 1  Cerebrospinal meningitis Chicken pox Diphtheria German measles Iufluenza Lethargic encephalitis	20 2 65 409 316 37 37 1 15 8 1 1 35	Michigan  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA  Chicken pox Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis.	60 1, 476 179 238 5 310 9 147 85 39 3 1 454 4 1 1 237 5 108
Whooping cough  Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Searlet fever Tuberculosis Typhoid fever Vincent's angina Whooping cough  MARYLAND 1  Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles	20 2 655 409 316 37 37 1 15 8 1 1 35	Michigan  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA  Chicken pox Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	60 1,476 179 238 5 310 9 147  85 39 3 1 454 4 1 237 5 108
Whooping cough  Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Vincent's angina Whooping cough  MARYLAND 1  Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles Mumps	20 20 65 409 316 37 7 7 1 15 8 1 1 35	Michigan  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA  Chicken pox Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	60 1,476 179 238 5 310 9 147  85 30 3 1 454 4 1 237 5 108 1 12
Whooping cough  Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Vincent's angina Whooping cough  MARYLAND 1  Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles Mimps Faratyphoid fever Paratyphoid fever Paratyphoid fever Paratyphoid fever Paratyphoid fever	20 20 316 409 316 37 37 1 1 15 8 1 1 1 35	Michigan  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA  Chicken pox Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIFI  Gerebrospinal meningitis Diphtheria	60 1,476 179 238 5 310 9 147  85 39 3 1 454 4 1 237 5 108
Whooping cough  Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Vincent's angina Whooping cough  MARYLAND 1  Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles Mumps Paratyphoid fever Pneumonia (broncho)	20 22 65 409 316 37 37 11 15 8 8 1 1 1 35 35 3 90 17 9 9 450 223 1 450 20 16 16 17 9 9 17 9 9 17 9 9 17 9 9 9 18 9 18 9	Michigan  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA  Chicken pox Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISHII  Cerebrospinal meningitis Diphtheria Scarlet fever	60 1,476 179 238 5 310 9 147 85 39 3 1 454 4 1 237 5 108 1 12
Whooping cough  Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Searlet fever Tuberculosis Typhoid fever Vincent's angina Whooping cough  MARYLAND 1  Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles Mumps Paratyphoid fever Pneumonia (botar)	20 20 316 37 37 37 115 8 1 135 33 90 17 9 23 1450 203 1 65 47	Michigan  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  Minnesota Chicken pox Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	60 1,476 179 238 5 310 9 147 85 39 3 1 454 4 1 237 5 108 1 12
Whooping cough  Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Vincent's angina Whooping cough  MARYLAND 1  Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles Mumps Paratyphoid fever Pneumonia (broncho)	20 20 316 37 37 37 115 8 1 135 33 90 17 9 23 1450 203 1 65 47	Michigan  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA  Chicken pox Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIFI  Cerebrospinal meningitis Diphtheria Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever Scarlet fever	60 1,476 179 238 5 310 9 147 85 39 3 1 454 4 1 237 5 108 1 12

### Reports for Week Ended May 1, 1926—Continued

MISSOURI		NEW MEXICO-continued	
(	Ta-Co	(	Cases
Chicken pox	64	Measles	17
Diphtherie	51	Mumps	11
Influenza	13 2	Pneamona	8
Malatia Measlea	-	Scarlet fever	<b>(</b> )
Mumps	23	Smallpox. Tubogarlose	1
Ophthalmia neonatorum	1	Tuberculosis Whooping cough	16 38
Pneumonia	4		37
Rabies	8	NEW YORK	
Scarlet fever.	202	(Evclusive of New York City)	
Smallpox	o,	Chicken pox	150
Trachoma	7	Diphthena	59
Tuberculosis	67	Dysentery	1
Typhoid fever	٠;	German measles	309
Whooping cough	68	Influenza	91
MONTANA		Lethargic encephalitis	3
	20	Malaria	2
Chicken pox	3	Measles	
German measles	32	Mumps.	137
Measles	57	Ophthalmia neonatorum	. 1
Mumps	6	Pneumonia	269
Rocky Mountain spotted fever—		Poliomyelitis Scarlet fever	2 236
Hamilton	1	Septie sore throat	250
Ryegate	1	Tetanus.	1
Sootman	1	Typhoid fever	3
Scarlet fever	37	Vincent's angina	10
Smallpox	1	Whooping cough	452
Tuberculosis	7		
Whooping cough	13	NORTH CAROLINA	
NEBRASKA		Chicken pox	118
Chicken pox	w	Diphtheria	13
		Carmon managles	004
	30 2	German measles	321
Diphtheria Influenza		Measles	243
Diphtheria	2	Measles	243 15
Diphtheria Influenza	2 2 90 2	Measles. Scallet fever. Smallpox.	243
DiphtheriaInfluenza	2 2 90 2 4	Measles Scallet fever. Smallpox. Typhoid fever.	243 15 31
Diphtheria Influenza Mensles Mumps Preumonia Scarlet fever	2 90 2 4 89	Measles. Scarlet fever. Smallpox Typhoid fever. Whooping cough	243 15 31 4
Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox	2 90 2 4 89 25	Measles Scallet fever. Smallpox. Typhoid fever.	243 15 31 4
Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis	2 90 2 4 89 25	Measles. Scarlet fever. Smallpox Typhoid fever. Whooping cough	243 15 31 4 202
Diphtheria Influenza Mensles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	2 90 2 4 89 25 12	Measles Scallet fever Smallpox Typhoid fever Whooping cough OKLAHOMA (Exclusive of Oklahoma City and Tulsa	243 15 31 4 202
Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis	2 90 2 4 89 25	Measles. Scallet fever. Smallpox. Typhoid fever. Whooping cough.  OKLAHOMA (Exclusive of Oklahoma City and Tulsa) Chicken pox.	243 15 31 4 202
Diphtheria Influenza Mensles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	2 90 2 4 89 25 12	Measles Scallet fever Smallpox Typhoid fever Whooping cough OKLAHOMA (Exclusive of Oklahoma City and Tulsa	243 15 31 1 202
Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	2 90 2 4 89 25 12	Measles Sealet fever Smallpox Typhoid fever Whooping cough OKLAHOMA (Exclusive of Oklahoma City and Tulsa, Chieken pox Diphtheria Influenza	243 15 31 4 202
Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	2 90 2 4 89 25 12 1 42	Measles Seatlet fever Smallpox Typhoid fever Whooping cough OKLAHOMA (Exclusive of Oklahoma City and Tulsa, Chicken pox Diphtheria	243 15 31 1 202 14 9 310
Diphtheria Influenza Measles Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	2 90 2 4 89 25 12 1 42	Measles Scallet fever Smallpox Typhoid fever Whooping cough  OKLAHOMA (Exclusive of Oklahoma City and Tulsa Chieken pox Diphtheria Influenza Malaria	243 15 31 202 14 9 310 17
Diphtheria Influenza Measles Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEW JERSEY Chicken pox Diphtheria	2 2 90 2 4 89 25 12 1 42	Measles Scallet fever Smallpox Typhoid fever Whooping cough  OKLAHOMA (Exclusive of Oklahoma City and Tulsa, Chicken pox Diphtheria Influenza Melaria Measles	243 15 31 202 14 9 210 17
Diphtheria Influenza Measles Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEW JERSEY Chicken pox Diphtheria Dysentery Influenza Malaria	2 2 90 2 4 89 25 12 1 42 196 62 18 1	Measles Sealet fever Smallpox. Typhoid fever Whooping cough  OKLAHOMA (Exclusive of Oklahoma City and Tulsa, Chieken pox Diphtheria Influenza Melaria Measles Mumps Pellagra. Scarlet fever	243 15 31 4 202 202 14 9 210 17 79 15 20 32
Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NEW JERSEY Chicken pox Diphtheria Dysentery Influenza Mularia Messles	2 2 90 2 4 89 25 12 1 42 196 62 1 18 1 2,313	Measles Seailet fever Smallpox Typhoid fever Whooping cough  OKLAHOMA (Exclusive of Oklahoma City and Tulsa, Chieken pox Diphtheria Influenza Measles Mumps Pellagra Scarlet fever Smallpox	243 15 31 202 202 14 9 210 17 79 15 20 32 29
Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NEW JERSEY Chicken pox Diphtheria Dysentery Influenza Malaria Measles Pneumonia	2 2 90 2 4 89 25 12 1 42 196 62 1 18 1 2,313 202	Measles Seatlet fever Smallpox Typhoid fever Whooping cough  OKLAHOMA (Exclusive of Oklahoma City and Tulsa, Chicken pox Diphtheria Influenza Melaria Measles Mumps Pellagra Scarlet fever Smallpox Typhoid fever	243 15 31 1 202 14 9 210 17 79 15 20 32 29 .6
Diphtheria Influenza Measles Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NEW JERSEY Chicken pox Diphtheria Dysentery Influenza Malaria Measles Pneumonia Poliomyelitis	2 2 90 2 4 89 25 12 1 42 196 62 1 18 1 2,313 202 1	Measles Seailet fever Smallpox Typhoid fever Whooping cough  OKLAHOMA (Exclusive of Oklahoma City and Tulsa, Chieken pox Diphtheria Influenza Measles Mumps Pellagra Scarlet fever Smallpox	243 15 31 202 202 14 9 210 17 79 15 20 32 29
Diphtheria Influenza Mensles Mensles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEW JERSEY Chicken pox Diphtheria Dysentery Influenza Malaria Mensles Pneumonia Poliomyelitis Scarlet fever	2 2 90 2 4 89 25 12 1 42 196 62 1 18 1 2,313 202 1 183	Measles Seatlet fever Smallpox Typhoid fever Whooping cough  OKLAHOMA (Exclusive of Oklahoma City and Tulsa, Chicken pox Diphtheria Influenza Melaria Measles Mumps Pellagra Scarlet fever Smallpox Typhoid fever	243 15 31 1 202 14 9 210 17 79 15 20 32 29 .6
Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEW JERSEY Chicken pox Diphtheria Dysentery Influenza Mularia Measles Pneumonia Poilomyelitis Scarlet fever Smallpox	2 2 90 2 4 89 25 12 1 42 196 6 2 1 18 1 2,313 202 1 188 1	Measles Seatlet fever Smallpox Typhoid fever Whooping cough  OKLAHOMA (Exclusive of Oklahoma City and Tulsa Chicken pox Diphtheria Influenza Melaria Measles Mumps Pellagra Scarlet fever Smallpox Typhoid fever Whooping cough	243 15 31 1 202 210 210 17 70 15 20 29 .6 30
Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEW JERSEY Chicken pox Diphtheria Dysentery Influenza Malaria Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Trichinosis	2 2 2 90 2 4 4 50 12 12 12 12 12 13 13 202 1 18 3 1 1 3 3 13 1 3 3 1 1 3 3 1 1 3 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Measles Sealet fever Smallpox. Typhoid fever Whooping cough  OKLAHOMA (Exclusive of Oklahoma City and Tulsa, Chicken pox. Diphtheria Influenza Melaria Measles Mumps Pellagra. Scarlet fever Smallpox Typhoid fever Whooping cough  OREGON Cerebrospinal meningitis	243 15 31 1 202 202 14 9 210 17 70 15 20 20 29 .6 30
Diphtheria Influenza Measles Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NEW JERSEY Chicken pox Diphtheria Dysentery Influenza Malaria Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Trichinosis Typhoid fever	2 2 2 90 2 4 4 89 25 12 1 42 196 62 1 1 188 1 1 2,813 202 1 1 183 6 6	Measles. Sealet fever. Smallpox. Typhoid fever. Whooping cough  OKLAHOMA  (Exclusive of Oklahoma City and Tulsa, Chicken pox. Diphtheria. Influenza. Melaria. Measles. Mumps. Pellagra. Scarlet fever. Smallpox Typhoid fever. Whooping cough.  OREGON  Cerebrospinal meningitis. Chicken pox.	243 15 31 1 202 210 210 17 79 15 20 32 29 6 30
Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEW JERSEY Chicken pox Diphtheria Dysentery Influenza Malaria Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Trichinosis	2 2 2 90 2 4 4 89 25 12 1 42 196 62 1 1 188 1 1 2,813 202 1 1 183 6 6	Measles. Scalet fever. Smallpox. Typhoid fever. Whooping cough.  OKLAHOMA (Exclusive of Oklahoma City and Tulsa, Chicken pox. Diphtheria. Influenza. Melaria. Measles. Mumps. Pellagra. Scarlet fever. Smallpox. Typhoid fever. Whooping cough.  OREGON Cerebrospinal meningitis. Chicken pox. Diphtheria.	243 15 31 1 202 210 210 17 79 15 20 32 29 6 30
Diphtheria Influenza Measles Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough NEW JERSEY Chicken pox Diphtheria Dysentery Influenza Malaria Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Trichinosis Typhoid fever	2 2 2 90 2 4 4 89 25 12 1 42 196 62 1 1 188 1 1 2,813 202 1 1 183 6 6	Measles Seatlet fever Smallpox Typhoid fever Whooping cough  OKLAHOMA  (Exclusive of Oklahoma City and Tulsa Chicken pox Diphtheria Influenza Measles Mumps Pellagra Scarlet fever Smallpox Typhoid fever Whooping cough  OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza	243 15 31 202 202 14 9 210 17 79 15 20 29 ,6 30 30 24 42 15 20 20 20 20 20 20 20 20 20 20 20 20 20
Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEW JERSEY Chicken pox Diphtheria Dysentery Influenza Malaria Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Trichinosis Typhoid fever Whooping cough	2 2 2 90 0 2 4 4 59 92 55 12 1 1 42 196 62 1 1 188 11 2,313 202 1 1 183 6 90	Measles Sealet fever Smallpox. Typhoid fever Whooping cough  OKLAHOMA (Exclusive of Oklahoma City and Tulsa Chicken pox. Diphtheria Influenza Measles Mumps Pellagra Scarlet fever Smallpox Typhoid fever Whooping cough  OREGON  Cerebrospinal meningitis Chicken pox. Diphtheria Influenza Measles Mumps Pellagra Scarlet fever Smallpox Typhoid fever Whooping cough	243 15 31 1 202 202 210 17 78 15 20 32 29 6,6 30 22 42 42 15 20 67
Diphtheria Influenza Measles Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEW JERSEY Chicken pox Diphtheria Dysentery Influenza Malaria Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Trichinosis Typhoid fever Whooping cough	2 2 2 90   2 2 4   59   25   12   1   42   196   62   1   1   2,813   202   1   188   1   3   6   90   19	Measles. Sealet fever. Smallpox. Typhoid fever. Whooping cough  OKLAHOMA  (Exclusive of Oklahoma City and Tulsa, Chicken pox. Diphtheria. Influenza. Measles. Mumps. Pellagra. Scarlet fever. Smallpox. Typhoid fever. Whooping cough.  OREGON  Cerebrospinal meningitis. Chicken pox. Diphtheria. Influenza. Measles. Mumps.	243 15 31 1 202 202 14 9 210 17 70 32 29 6 30 30 2 42 15 15 20 6 46 16 16 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18
Diphtheria Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fover Whooping cough  NEW JERSEY  Chicken pox Diphtheria Dysentery Influenza Mularia Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Trichinosis Typhoid fever Whooping cough	2 2 2 90 2 4 89 92 5 5 12 1 42 1 188 1 1 183 6 90 19 1 1	Measles Sealet fever Smallpox. Typhoid fever Whooping cough  OKLAHOMA (Exclusive of Oklahoma City and Tulsa Chicken pox. Diphtheria Influenza Measles Mumps Pellagra Scarlet fever Smallpox Typhoid fever Whooping cough  OREGON  Cerebrospinal meningitis Chicken pox. Diphtheria Influenza Measles Mumps Pellagra Scarlet fever Smallpox Typhoid fever Whooping cough	243 15 31 1 202 202 210 17 79 15 20 20 32 29 6 8 30 20 21 17 40 40 40 40 40 40 40 40 40 40 40 40 40
Diphtheria Influenza Measles Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  NEW JERSEY Chicken pox Diphtheria Dysentery Influenza Malaria Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Trichinosis Typhoid fever Whooping cough	2 2 2 90 2 4 89 92 5 5 12 1 42 1 188 1 1 183 6 90 19 1 1	Measles Seallet fever Smallpox Typhoid fever Whooping cough  OKLAHOMA  (Exclusive of Oklahoma City and Tulsa Chicken pox Diphtheria Influenza Measles Mumps Pellagra Scarlet fever Smallpox Typhoid fever Whooping cough  OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Mumps Pellagra OREGON  Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Mumps Pneumonia	243 15 31 1 202 202 210 17 79 15 20 20 32 29 8 8 30 20 21 13 20 20 42 42 43 44 45 46 46 46 46 46 46 46 46 46 46 46 46 46

## Reports for Week Ended May 1, 1926—Continued

oregon—continued	1	TENNESSEE-continued	_
	cases		Cases
Scarlet fever	57	Influenza	170
Smallpox	16	Malaria	9
Trachoma	1	Measles	349
Tuberculosis	10	Mumps	7
Typhoid fever	4	Pellagra	17
Whooping cough	41	Pneumonia	85
PENNSYLVANIA		Rabies	2
PERASILVANIA		Scarlet fever	14
Anthrax—Philadelphia	1	Smallpox	8
Cerebrospinal meningitis—Carrick	1	Tetanus	1
Chicken pox	492	Tuberculosis	54
Diphtheria	225	Typhoid fever	6
German measles	113	Whooping cough	17
Impetigo contagiosa	13		
Lethargie encephalitis:		TEXAS	
Allentown	1	Anthrax	2
Philadelphia	2	Chicken pox	45
Malaria	4	Dengue	2
Measles	_	Diphtheria	21
Mumps	143	Dysentery	
Ophthalmia neonatorum—Philadelphia	2	Influenza	
Pneumonia	78	Measles	
		Mumps	72
Poliomyelitis-Windber		Pellagra	1
Rabies	_	Pnemonia.	
Scables		Scarlet fever	
Scarlet fever		Smallpox	
Smallpox		Trachoma	
Tuberculosis		Tuberculosis	
Typhoid fever			4
Whooping cough	428	Typhoid fever	94
RHODE ISLAND		Whooping cough	94
	. 7	UAH	
Chicken pox		Chicken pox	31
Diphtheria		Diphtheria	
German measles		Measles	
Influenza		Mumps	
Measles		Pneumonia	
Mumps		Scarlet fever	
Pneumonia		Smallpox	
Scarlet fever			
Septic sore throat		Tuberculosis	
Tuberculosis		Typhoid fever	
Whooping cough	. 22	Whooping cough	193
SOUTH DAKOTA		VERMONT	
Chicken pox	. 12	Chicken pox	26
Diphtheria.		Measles	
Influenza		Mumps.	
Measles		Poliomyel tis	
Mumps.		Scarlet fever	
Pneumonia		Whooping cough	35
Rocky Mountain spotted fever		VIRGINIA	
Scarlet fever			
Smallpox		Cerebrospinal meningitis-Wythe County	
'Tuberculosis	. 5	Smallpox—Franklin County	15
Whooping cough	. 13	WASHINGTON	
TENNESSEE			
		Cerebrospinal meningitis:	
Cerebrospinal meningitis:		Bellingham	1
Fentress County		, King County	1
Hamblen County			
NT- ab		Spokane	
Nashville	. 2	W.hkiakum County	1
Chicken pox	2 29	W.hkiakum County Chicken pox	1 61
	2 29		1 61

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### Reports for Week Ended May 1, 1926-Continued

and a service of the service of			
Wishincton—continued	Cases	Wisconsin-continued	Cases
German measles.	54	Seattering:	
Measles	129	Cerebrospinal memigrus	3
Mumps	67	Chieken hor	67
Searlet fever	105	Diphrhedia	19
Smallpex	69	German measles	71
Tuberculosis	17	influenz.	266
Typhord fever Whooping cough	4 70	Mumps	692 91
	417	Pneumonia.	37
WEST VIE INIA	25	Scarle+ fover	137
Diphthena	8	Smalipox	7
Influenza	129	Tubercalosis	19
Measles	982	Typhori fever	6
Scarlet icver	62	Whooping cough	148
Sm ilpox	8		
Tuberculosis	38	MA OWING	
Typhoid fever	4	Chicken pov	24
Whooping coug'	25	German mensies	1
WISCONSIN		Influenza	4
Milwaukee:		Measles	5
Chicken pox	88	Mumps	5
Dip theria	5	Pneumonia	2
German measles	7	Rocky Mountain spotted fever:	_
Influenza	8	Campbell County	1
Measles	206	Converse County	1 2
Mumps.	45	Park County	
Preumonia	31 18	Sheridan County	1 33
Scarlet fever	23	Scarlet fever Tuberculosis	33
Whooping cough	41		14
1. NOOPING CONSULTATIONS	*1	; if hooping cough	•-
. Reports for W	eek E	Ended April 24, 1926	
_	eek F	Ended April 24, 1926	
Reports for W		NORTH CAROLINA—continued	Cases
DISTRICT OF COLUMBIA	cases	NORTH CAROLINA—continued	Cases
_	Cases	NORTH CAROLINA—continued	
DISTRICT OF COLUMBIA Chicken pox	Cases 25	NORTH CAROLINA—continued Typhoid fever	6
DISTRICT OF COLUMBIA Chicken pox	Cases	NORTH CAROLINA—continued Typhoid fever	6 216
DISTRICT OF COLUMBIA Chicken pox	Cases 25 9 585 38 21	NORTH CAROLINA—continued Typhoid fever	6 216 4
DISTRICT OF COLUMBIA Chicken pox	Cases 25 9 585 38 21 22	NORTH CAROLINA—continued Typhoid fever. Whooping cough. NORTH DAKOTA Chicken pox. Diphtheria.	6 216 4 6
Chicken pox	Cases 25 9 585 38 21	NORTH CAROLINA—continued Typhoid fever. Whooping cough NORTH DAKOTA Chicken pox. Diplin heria German messles.	6 216 4 6 139
Chicken pox	Cases 25 9 585 38 21 22	NORTH CAROLINA—continued Typhoid fever Whooping cough NORTH DAKOTA Chicken pox Diphn heria German messles. Impetigo contagiosa	6 216 4 6 139
Chicken pox	Cases 25 9 585 38 21 22 29	NORTH CAROLINA—continued Typhoid fever	6 216 4 6 139 1
DISTRICT OF COLUMBIA  Chicken pox	Cases 25 9 585 38 21 22 29	NORTH CAROLINA—continued Typhoid fever. Whooping cough  NORTH DAKOTA Chicken pox. Diphrheria German measles Impetigo contagiosa Influenza Measles	6 216 4 6 139
DISTRICT OF COLUMBIA  Chicken pox	Cases 25 9 585 38 21 22 29	NORTH CAROLINA—continued Typhoid fever Whooping cough NORTH DAKOIA Chicken pox. Diphtheria German messles Impetigo contagiosa Influenza Measles Munps	6 216 4 6 139 1 1 63 23
Chicken pox	Cases 25 9 585 38 21 22 29 116 25 327	NORTH CAROLINA—continued Typhoid fever Whooping cough NORTH DAKOTA Chicken pox Diphtheria German messles. Impetigo contagiosa Influenza Measles Mumps Pneumonia	6 216 4 6 139 1 1 63 23
Chicken pox	Cases 25 9 585 38 21 22 29 116 25 327 270	NORTH CAROLINA—continued Typhoid fever	6 216 4 6 139 1 1 63 23
DISTRICT OF COLUMBIA  Chicken pox	Cases 25 9 585 38 21 22 29 116 25 327 270 17	NORTH CAROLINA—continued Typhoid fever Whooping cough NORTH DAKOTA Chicken pox Diphtheria German messles. Impetigo contagiosa Influenza Measles Mumps Pneumonia	6 216 4 6 139 1 1 63 23 12 68
Chicken pox	Cases 25 9 585 38 21 22 29 116 25 327 270 17	NORTH CAROLINA—continued Typhoid fever. Whooping cough NORTH DAKOTA Chicken pox. Diphtheria. German measles. Impetigo contagiosa Influenza Measles Munps Preumonia. Scarlet fever. Smallpox. Trachoms.	6 216 4 6 139 1 1 63 23 12 68 2
Chicken pox	Cases 25 9 585 38 21 22 29 116 25 327 270 17 1 58	NORTH CAROLINA—continued  Typhoid fever Whooping cough  NORTH DAKOIA  Chicken pox Diph heria German meosles Impetigo contagiosa Influenza Measles Mumps Precurionia Scarlet fever Small pox Trachoms Whooping cough	6 216 4 6 139 1 1 63 23 12 68 2 3
Chicken pox	Cases 25 9 585 38 21 22 29 116 25 327 270 17 1 58	NORTH CAROLINA—continued Typhoid fever. Whooping cough NORTH DAKOIA Chicken pox. Diphtheria. German messles. Impetigo contagiosa Influenza. Measles Munps Preumonia. Scarlet fever. Small pox. Trachoms.	6 216 4 6 139 1 1 63 23 12 68 2 3
Chicken pox	Cases 25 9 585 38 21 22 29 116 25 327 270 17 1 58	NORTH CAROLINA—continued Typhoid fever. Whooping cough NORTH DAKOIA Chicken pox. Diphtheria. German messles. Impetigo contagiosa Influenza. Measles. Munips Preumonia. Scarlet fever. Small pox Trachoms. Whooping cough	6 216 4 6 139 1 1 63 23 12 68 2 3
Chicken pox	Cases 25 9 585 38 21 22 29 116 25 327 270 17 1 58	NORTH CAROLINA—continued  Typhoid fever Whooping cough  NORTH DAKOIA  Chicken pox Diph heria German meosles Impetigo contagiosa Influenza Measles Mumps Precurionia Scarlet fever Small pox Trachoms Whooping cough	6 216 4 6 139 1 1 63 23 12 68 2 1 21 Cuses
Chicken pox	Cases 25 9 585 38 3 21 22 29 116 25 327 17 1 38 eek E	NORTH CAROLINA—continued Typhoid fever. Whooping cough NORTH DAKOIA Chicken pox. Diphtheria. German messles. Impetigo contagiosa Influenza. Measles. Mumps Preumonia. Scarlet fever. Smallpox Trachoms. Whooping cough Inded April 17, 1926 North Carolina—continued Ophthalmia neonatorum	6 216 4 6 139 1 1 63 23 12 68 2 2 3 21 Cases 2
Chicken pox	Cases 25 9 585 53 33 21 22 29 116 25 327 270 17 1 38 eek E	NORTH CAROLINA—continued  Typhoid fever Whooping cough  NORTH DAKOTA  Chicken pox Diphtheria German messles Impetigo contagiosa Influenza Measles Murips Preunionia Scarlet fever. Smallpox Trachoms. Whooping cough  Inded April 17, 1926  NORTH CAROLINA—continued  Ophthalmia neonatorum Scarlet fever.	6 216 4 6 139 1 1 63 23 12 68 2 3 21 Cases 2 28
Chicken pox	Cases 25 9 9 585 33 321 22 29 116 25 327 270 17 1 38 eeek E	NORTH CAROLINA—continued  Typhoid fever Whooping cough  NORTH DAKOTA  Chicken pox. Diphtheria. German messles. Impetigo contagiosa Influenza. Measles Mumps Pneumonia. Scarlet fever. Smallpox Trachoms. Whooping cough  inded April 17, 1926  NORTH CAROLINA—continued  Ophthalmia neonatorum Scarlet fever. Smallpox	6 216 4 4 6 139 1 1 1 63 23 22 21 Courses 2 2 23 17
Chicken pox Diphthetia Measles Pneumonia Scarlet fever Tuberculosis Whooping cough NORTH CAROLINA Chicken pox Diphthetia German measles Measles Scarlet fever Septic sore throat Small pox Report for W NORTH CAROLINA Chicken pox Diphthetia Gerchrospinal meningitis Chicken pox Diphthetia German measles	Cases 25 9 585 585 38 21 22 29 116 25 327 270 17 1 38 eek E	NORTH CAROLINA—continued Typhoid fever. Whooping cough NORTH DAKOTA Chicken pox Diplatheria German measles Impetigo contagiosa Influenza Measles Mumps Preumonia Scarlet fever Smallpox Trachoms Whooping cough Inded April 17, 1926 NORTH CAROLINA—continued Ophthalmia neonatorum Scarlet fever Smallpox Typhoid fever	6 216 4 6 6 139 1 1 63 23 3 21 Cases 2 2 28 177 4
Chicken pox	Cases 25 9 585 585 38 21 22 29 116 25 327 270 17 1 38 eek E	NORTH CAROLINA—continued  Typhoid fever Whooping cough  NORTH DAKOTA  Chicken pox. Diphtheria. German messles. Impetigo contagiosa Influenza. Measles Mumps Pneumonia. Scarlet fever. Smallpox Trachoms. Whooping cough  inded April 17, 1926  NORTH CAROLINA—continued  Ophthalmia neonatorum Scarlet fever. Smallpox	6 216 4 6 6 139 1 1 63 23 3 21 Cases 2 2 28 177 4

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### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those State from which reports are received during the current week.

Stute	Cere- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laus	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
March, 1936										
Delaware Hawaii Territory Illinois Kansas Maris Maryland Masyachusetts Michigan Minnesota Mississippi Montana New York Oregon Rhode Island South Dakota Vermont Virginia Washington West Virginia	18 18 22 8 28 17 0 0 0 0 8 38	12 26 356 71 13 88 304 397 177 82 16 979 77 41 19 96 78	73 82 2,081 393 1,352 1,172 210 272 15,081 792 453 14 18,335 57 2,018	2, 296	483 61 4, 514 2, 209 876 4, 337 5, 490 8, 258 1, 262 1, 434 105 2, 140 272 1, 388	358	0 4 4 2 0 1 5 5 3 2 1 1 23 0 0 0 0 2 2 0 0 0	42 00 2,050 362 117 211 1,194 1,781 1,841 201 2,032 169 5.5 302 302 303 303 303 303 303 303	0 0 107 65 0 0 0 30 29 101 145 7 147 0 43 43 43 424 73	1 9 44 4 100 8 200 25 5 5 5 5 103 7 1 11 25 18 26

### PLAGUE ERADICATIVE MEASURES IN LOS ANGELES. CALIF.

The following items were taken from the reports of plague eradicative measures from Los Angeles, Calif.:

Week ended Apr. 17, 1926:

Date of last human case, Jan. 15, 1925.

Number of rats trapped	729
Number of rats found to be plague infected	0
Number of squirrels examined	764
Number of squirrels found to be plague infected	0
Number of mice trapped.	1, 163
Number of mice found to be plague infected.	0
Date of discovery of last plague-infested rodent, Nov. 6, 1925.	

## GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended April 17, 1926, 35 States reported 1,005 cases of diphtheria. For the week ended April 18, 1925, the same States reported 1,196 cases of this disease. One hundred and two cities, situated in all parts of the country and having an aggregate population of nearly 30,400,000, reported 640 cases of diphtheria for the week ended April 17, 1926. Last year for the corresponding week they reported 888 cases. The estimated expectancy for these cities was 916 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-two States reported 17,104 cases of measles for the week ended April 17, 1926, and 4,587 cases of this disease for the week ended April 18, 1925. One hundred and two cities

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reported 10,328 cases of measles for the week this year, and 3,239 cases last year.

Poliomyelitis.—The health officers of 35 States reported 9 cases of poliomyelitis for the week ended April 17, 1926. The same States reported 8 cases for the week ended April 18, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-five States—this year, 3,614 cases; last year, 3,610 cases; 102 cities—this year, 1,783 cases; last year, 1,887 cases; estimated expectancy, 1,137 cases.

Smallpox.—For the week ended April 17, 1926, 35 States reported 784 cases of smallpox. Last year for the corresponding week they reported 634 cases. One hundred and two cities reported smallpox for the week as follows: 1926, 153 cases; 1925, 267 cases; estimated expectancy, 121 cases. Nine deaths from smallpox were reported by these cities for the week this year—at Los Angeles, Calif.

Typhoid fever.—Two hundred and ten cases of typhoid fever were reported for the week ended April 17, 1926, by 34 States. For the corresponding week of 1925 the same States reported 204 cases of this disease. One hundred and two cities reported 40 cases of typhoid fever for the week this year and 64 cases for the corresponding week last year. The estimated expectancy for these cities was 49 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 95 cities, with a population of nearly 29,700,000, as follows: 1926, 1,679 deaths; 1925, 1,175.

### City reports for week ended April 17, 1926

The "estimated expectancy" given for diphtheria, pollomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding-week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

•			Diph	theria	Influ	enza		,	,
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	2162	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine: Portland New Hampshire:	75, 333	2	. 1	Q	. 4	. 0	224	3	7
ConcordVermont:	22, 546	0	1	0	0	0	0	0	3
Barre Burlington	10, 008 24, 089	0	0	0	0	0	0	0	1 0

City reports for week ended April 17, 1926—Continued

	1		Dimbi	horio	To flo	0770			
Division, State, and	Population July 1,	Chick- en pox,	Diphi Cases,		Influ		Mea- sles, cases	Mumps,	Pneu- monia, deaths
city	July 1, 1925, estimated	cases re- ported	esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	re- ported	ported	re- ported
NEW ENGLAND-con.									
Massachusetts: Boston Fall River Springfield Woreester Rhode Island:	779, 620 128, 993 142, 065 190, 757	24 3 5 8	5 <u>4</u> 3 3 4	7 3 1 4	15 9 3 4	4 3 2 1	191 14 60 6	22 1 0 0	45 10 0 20
Pawtucket Providence	69, 760 267, 918	10	1 10	0 2	0 3	0 2	45 100	0	4 10
Connecticut: Bridgeport Hartford. New Haven	(1) 160, 197 178, 927	1 7 19	6 7 3	1 2 0	11 6 3	4 5 1	4 42 81	0 0 1	7 14 7
MIDDLE ATLANTIC		! 							
New York: Buffalo New York Rochester Syracuse	538, 016 5, 873, 356 316, 786 182, 003	22 118 12 4	10 248 6 6	142 13 1	0 151 0 1	11 56 3 0	1,824 1,824 199 171	0 57 2 24	33 374 7 4
New Jersey: Camden Newark Trenton	128, 642 452, 513 132, 020	6 10 1	16 3	6 5 1	1 4 1	1 2 1	26 250 57	1 4 5	5 23 5
Pennsylvania: Philadelphia Pittsburgh Reading	1, 979, 364 631, 563 112, 707	· 93 40 5	75 17 3	59 5 0		21 24 0	731 117 15	15 4 1	76 48 3
EAST NORTH CENTRAL		}		1				'	
Ohio: CincinnatiClevelandColumbusToledoIndiana:	409, 333 936, 485 279, 836 287, 380	6 51 12 25	8 19 4 1.	1 25 3 2	5 27 0 0	13 27 1 3	107 134 507 186	6 4 3 0	20 42 8 10
Fort Wayne Indianapolis South Bend Terre Haute	97, 846 358, 819 80, 091 71, 071	9 11 5 0	2 6 1 1	0 2 2 0	0 0	0 2 0 1	10 367 17 22	0 1 0 0	5 19 5 1
Illinois: Chicago Peoria Springfield Michigan:	2, 995, 239 81, 564 63, 923	119 4 10	93 1 0	40 0 0	43 0 4	17 0 4	172 63 40	25 12 7	94 2 2
Detroit	1, 245, 824 130, 316 153, 698	40 9 2	47 3 4	34 2 1	5 2 2	17 2 4	355 45 33	12 0 0	84 4 5
Kenosha Madison Milwaukee Racine Superior	50, 891 46, 385 509, 192 67, 707 39, 671	8 3 99 2 0	1 0 13 2 0	0 0 15 1 0	1 0 18 2 0	0 0 8 2 0	1 138 177 8 27	0 0 40 14 0	· 40 6 2
WEST NORTH CENTRAL Minnesota.									
Duluth Minneapolis St. Paul	110, 502 425, 435 246, 001	13 59 35	1 15 13	0 30 32	0	0 5 0	10 306 46	1 2 11	3 16 10
Sionx City Waterloo Missouri	36, 771	0 4 1	0 1 0	0	0 0 0		0 16 16	0	
Kansas City St. Joseph St. Louis	367, 481 78, 342 821, 543	14 39	7 1 37	3 53	5 1	5 1	229 772	6	13
North Dakota: Fargo Grand Forks	26, 403 14, 811	2 0	0	0	0	0	78 1	10 0	1

¹ No estimate made.

City reports for week ended April 17, 1926—Continued

			Diphi	theria	Influ	enza			
Division. State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, eases re- ported	Pneu- monia, deaths re- ported
WEST NORTH CENTRAL— continued									
South Dakota: Aberdeen Sioux Falls	15, 036 30, 127	4 1	1 0	5 0	0 0	<u>-</u>	29 8	31 0	ō
Nebraska Lincoln Omaha Kansas:	60, 941 211. 768	5 11	1 4	0 1	0	0	0 29	1	1 11
TopekaWichita	55, 411 88, 367	16 7	1 1	0	0	0	11 137	0	5 3
SOUTH ATLANTIC Delaware:				_			.,	0	7
Wilmington Maryland:	122,049	0	2	5	0	2	14 324	240	37
Baltimore Cumberland Frederick District of Columbia:	796, 296 33, 741 12, 035	70 0 0	25 0 0	20 3 0	19 0 2	. 0	5 18	0	2 0
Washington Virginia:	497, 906	24	9	14	2	1	615	0	18
Lynchburg Norfolk Richmond Roanoke	30, 395 (1) 186, 403 58, 208	9 11 3 1	0 1 2 0	1 0 0 0	0 0 0	1 0 0 5	135 5 64 146	3 2 7	1 6 6 2
West Virginia: Charleston Huntington	49, 019 63, 485	2 0 3	0 0	1 0 1	6 0	3 3 2	15 0 112	007	0 5 8
Wheeling North Carolina: Raleigh Wilmington	56, 208 30, 371 37, 061	0 17	0	0	0	0	0	0	2 2 2
Winston-Salem South Carolina: Charleston Columbia	69, 031 73, 125 41, 225 27, 311	8 7	0 0	0 1 0	0 0	2 2 0	68 24 0	0 0 1	2
Greenville Georgia: Atlanta	27, 311	10	0 2	0	0 15	0	3 14	3	9
Brunswick Savannah Florida:	16, 809 93, 134	3	0	. 0	5	3	0 2	0	1 2
St. Petersburg Tampa	26, 847 94, 743	8	0	0	0	0	2	i	1 3
EAST SOUTH CENTRAL							İ		
Kentucky: Covington Louisville Tennessee:	58, 309 305, 935	0 3	2 4	0	1 1	1 2	35 261	0	10 28
Memphis Nashville Alabama:	174, 533 136, 220	25 1	3 0	5 0	0	1 2	113 36	6	1
Birmingham Mobile Montgomery	205, 670 65, 955 46, 481	· 7 0 17	2 1 0	0 1 0	41 0 2	2 1 0	85 0 6	1 0 32	1
WEST SOUTH CENTRAL									
Arkansas: Fort Smith Little Rock	31, 643 74, 216	13 0	0	0	0		4 21		
Louisiana: New Orleans Shreveport	414, 493 57, 857	3 3	7 0	3 0	4 0				
Oklahoma City	(1)	1	1	1	1 0	0	i 0	1	. 6

¹ No estimate made.

92550°--26----3

### City reports for week ended April 17, 1926-Continued

Diphtheria

Influenza

	1		i	D	ipht	neria		111	nuen	za ;			
Division, State. and eng	1	pulation July 1, 1925, timated	Chicken por cases 16- porte	Casest	i- ed ct-	Cas re- port	. ]	Caser re- porte		eaths re- orted	Mea- sles, cases re- ported	Mumps, cases re- perted	Pneu- monia, deaths re- ported
WEST SOUTH CENTRAL—conid.							1					1	
Texas: Dallas Galveston Houston San Antonio MOUNTAIN		194, 450 48, 375 164, 954 198, 069		5 0 1	3 0 2 1		1 0 1 2		5 0 0 0	6 0 0 3	0 0 0 2	0	4 2 7 12
Montana: Billings Great Falls Helena Missoula Idaho:		17, 971 29, 883 12, 637 12, 668		1 8 0 1	0 0 0		0		1 0 0 0	0	0 12 0 3	1 5 0	1 1 2 0
Boise Colorado: Denver		23, 042 280, 911 43, 787		2	11	ì	13		0	0 5	0 33 6	0	0 8 2
Pueblo New Mexico: Albuquerque Arizona:		21, 000	1	1 1	1		0		0	0	1	6	1
Phoenix		38, 669 130, 948	1	0 ! 15 j	3		5		0	0	1	24	3
Reno		12, 665		0	0	1	0		0	0	0	0	0
Washington: Seattle		(1) 108, 897 104, 455		19 26 1	5 3 1	!	4 1 3		0	0	28 0 6	35 0 0	5
Portland California: Los Angles Sacramento San Francisco		282, 383 (1) 72, 260 557, 530		19 · 31 5 ·	35 1 21	:	32 1 9		0 15 1 3	0 2 2 2 2	36 18 1 86	19 5 13	16 5
	Scarle	t fever	<u>!</u> £	Smallpo	X	<u>i</u> ;		1	T ₃	phoid	fever	1	
and city	Cases esti- nated apect- ancy	Cases,	Cases, esti- mated expect- ancy	Cases,	. г	aths	Tuh cul sis dear re por	ths c	ases, esti- ated pect- ncy	Cases re- porte	re-	re-	Deaths, all causes
NEW ENGLAND													,
Maine: Portland New Hampshire: Concord	4 1	5	0	0 0		0		2	0	0	1	1 15	26 25
Vermont: Barre Burlington Massachusetts:	0	0 4	0	0		0		1	0	0		0	3 5
Boston Fall River Springfield Worcester	62 4 6 10	86 4 1 6	0	0 0 0 0		0 0 0		25 3 2 2	1 0 1	1 1 0 1		1 143 0 6 0 17 0 18	295 51 31 85
Rhode Island: Pawtucke; Providence  1 No estimate mad	1 9 e.	6	0	0		0		6	0	0		8 6	23 73

### City reports for week ended April 17, 1926-Continued

**************************************	Scarle	t fever		Smallpo	x	Tuber-	Ту	phoid f	ever	Whoop-	
Division, State, and city	Cascs, esti- mated expect- ancy	Cases, re- ported	Cases, esti- mated expect- ancy	Cases, re- ported	Deaths re- ported	culo- sis. deaths re-	Cases, esti- mated expect- ancy	Cases. re- ported	Deaths re-	cough, cases re- ported	Deaths, all causes
NEW ENGLAND— continued											
Connecticut Bridgeport Hartford New Haven	5 9	17 4 22	0 0 0	0 0 0	0 0	1 3 2	0 0 0	0 0	0	5 7 19	43 68 52
MIDDLE ATLANTIC			,						•		
New York: Buffalo New York Rochester Syracuse New Jersey:	21 252 17 13	14 174 6 1	0 0 0	0 1 0 0	0 0 0	1 113 0 1 1	1 10 0 0	0 11 0 0	0 0 0	51 92 9 30	157 1,830 90 42
Camden Newark Trenton	25 2	18 8	0	0	· 0	2 8 3	0 1 1	0	0 0 0	20 0	37 141 32
Pennsylvania Philadelphia Pittsburgh Reading	76 21 4	92 43 16	0 1 0	0 0 0	0	38 16 1	3 1 0	3 1 0	1 0 0	22 64 8	569 242 33
EAST NORTH CENTRAL			,								,
Ohio Cincinnati Cleveland Columbus Toledo	13 22 8 15	24 160 22 18	2 1 1 5	1 0 2 0	0 0 0 0	13 21 8 5	1 1 0 1	0 1 0 0	0 0 0	33 108 3 27	154 286 83 88
Indiana: Fort Wayne Indianapolts South Bend Terre Haute Illinois:	3 11 4 2	7 17 4 6	2 1 0 1	0 11 1 0	0 0 0 0	1 3 2 1	0 0 0	0 0	0 0	2 46 13 0	30 122 19 25
Chicago Peoria Springfield	111 2 1	125 4 2	1 0	6 0 0	0 0 0	73 1 0	2 0 0	0 0 1	0	43 18 18	793 21 21
Michigan: Detroit Flint Grand Rapids	82 6 7	124 12 26	2 1 1	0	0	17 0 1	2 0 0	0	0	56 24 18	416 21 45
Wisconsin: Kenosha Madison Milwaukee Racine Superior	3 4 27 3 2	1 3 10 6 13	0 1 3 1 2	0 0 0 0	0 0 0 0	0 0 12 0	0 0 0 0	0 0 1 0 0	0000	11 4 59 19 0	7 10 156 23 4
WEST NORTH CENTRAL		1						Ì			
Minnesota: Duluth Minneapolis St. Paul Iowa:	5 29 25	27 68 45	85	0 0 0	0	1 5 4	0	0 1 0	0 0	6 2 33	36 128 63
Davenport Sioux City Waterloo Missouri:	2 2 2	5 4 2	3 1 0	0 6 0			0 0 1	0 0		0 4	
St. Joseph St. Louis	11 3 35	25 206	0 4	0	0	6 13	1 0 2	0	1 0	27 38	105 232
North Dakota: Fargo Grand Forks South Dakota:	1	0	0	0	0	0	0	0	0	. 0	5
Aberdeen Sioux Falls	1 2	15	0	0	0	0	0	0	,0	1 2	8

¹ Pulmonary tuberculosis only.

City reports for week ended April 17, 1926—Continued

Property and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	Scarlet	fever	1	Smallpo	x	Tuber-	Ту	phoid f	ever.	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases, re- ported	Cases, esti- mated expect- ancy	Cases, re- ported	Deaths re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases. re- ported	Deaths re- ported	ough, cough, cases re- ported	Deaths, all causes
WEST NORTH CENTRAL—contd.						1					
Nebraska: Lincoln Omaha	3 3	8 54	0 7	1 11	0	0 5	U	0	0	13 1	- 16 - 53
Kansas: Topeka Wichita	4 2	5 4	2 3	0	0	0	0	0	0	0 8	20 28
SOUTH ATLANTIC					i			i			
Delaware: Wilmington Maryland:	3	7	0	0	0	5	U	0	0	0	35
Baltimore Cumberland Frederick	33 0 2	49 0 0	0	0	, 0	21 1 0	0 0	0 0	0	11 2 0	219 10 2
District of Col.: Washington Virginia:	23	17	2	0	0	14	1	1	0	41	129
Lynchburg Norfolk Richmond	0 1 2 0	1 3 7 3	0 0	0 0 0 2	0 0 0 0	0 2 3 0	0 0 0	0 0	0 0 0	10 17 6 3	11 46 19
Roanoke West Virginia: Charleston Huntington	1 0	0	0	3	0 0	0	0	0	0 0	13 0	22 19
Wheeling North Carolina; Raleigh Wilmington	0 0	1 1	0	0 0	0	1 1 2	0 0	0	0 0	0 4 2	23 11 18
Winston- Salem	. 0	0	5	1	Ü	4	0	, 0	. 0	1	23
South Carolina: Charleston Columbia Greenville	0 0	0		0 0	0	2 0 2	0 0	0 0	0	0 0 2	33
Georgia: Atlanta Brunswick Savannah	0 1	300	300	1 0 2	0	4 0 3	0 0		0	3 0 0	80 4 27
Florida: St. Petersburg Tampa	. 0	ō	- 0	12	0	0 3	0	· · · · · · ·	0	0	27 34
EAST SOUTH CENTRAL					1						
Kentucky: Covington Louisville	2 5	1 5		1 0	0	3 7	1 1	0	0	0	37 101
Tennessee: Memphis Nashville	4 2	18 2		0		4 8	0	0	0	1 0	71 54
Alabama: Birmingham Mobile Montgomery	0	0 1		1 0	0	7 2 0	1 1 0	0 0 0	0	16 '0 0	69 19 12
WEST SOUTH CENTRAL								•			
Arkansas: Fort Smith Little Rock	- 0	0 4	0	0	0	3	0	0		0	
New Orleans. Shreveport	1	20	3 2	3	0	12	2 0	2 2	1 0	5	· 132
Oklahoma: Oklahoma Cit Texas:	1	2		0	0	1	0	0	0	0	20
Dallas Galveston Houston San Antonio	- 1		0	13 0	0 0 0	5 0 2 12	0 0	0 0 2 1	0 0	19°	48 14 53 70

### City reports for week ended April 17, 1926—Continued

	1		,										
-	Scarlet	t fever		Sm	allpe	Z			Ty	phoid f	evei		
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cas est mai expe	ct- po	ases re- orted	Deat re- port	hs ed	Tuber culosis death re- porte	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	cases re-	Deaths, all causes
MOUNTAIN													
Montana: Billings Great Falls Helena Missoula	0 1 0 1	3 0 0 1	Andrew and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	0 1 1 1	0 0 0	aden dant e malitante e	0 0 0 0		0	0 0 0 0	0 0 0	0 14 0 0	5 9 5 7
Idaho: Boise	1	3		0	3		0	(	0	0	0	0	3
Colorado: Denver Pueblo	10 1	10 1		2 0	0		0	8		0	0	53 0	79 11
New Mexico: Albuquerque	0	2		0	0		0		5 0	0	0	3	12
Arizona: Phoenix	0	1			0		0	10	)	. 0	0	3	22
Utah: Salt Lake City	3	1	l 1	1	0		0	] 1	0	1	0	· 82	37
Nevada: Reno	0	0		0	0		0	(	0	0	0	0	1
PACIFIC			i						'	1			11
Washington: Seattle Spokane	. 8	36 44 2		4 7 2	3 0 19		 0		- 0	1 0 0	ō	7 7 5	27
Tacoma Oregon: Portland	6	31		10	19		0			1	0	2	56
California:		21		3	25	!	9	31	1	1	0	8	244
Los Angeles Sacramento San Francisco.	, 1	4 19	1	3	0 4		0	13	. 0	3 0	0	0 2	31 146
			rebro	spina gitis		Leth encep			Pella	agra	Peliom	yelitis (i paralysis	niantile
Division, State,	and city	Case	es	Death	s C	ases	De	eaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
NEW ENGLA	.ND												
Massachusetts: Fall River Springfield		-	1 0		0	0		0	0	0	0 0	0	, e
MIDDLE ATLA	NTIC	1					1						
New York:  Buffalo  New York  New Jersey:			0 5	;	23	0 6		0 7	0	0	0	0 2	0
Newark Pennsylvania:			0		0	2		0	0	0	0	0	0
Philadelphia Pittsburgh			0		0	0 0	-	1 0	0 0	0	0	0	0
EAST NORTH CF	NTRAL		1										
Ohio: Cleveland Columbus			0		0	0		1	0	0	0,	0	0
Illinois: Chicago			2		1	3		2	G	0	1	0	0
Michigan: Detroit			2	•	0	1	Ì	0	0	i 0	1	Ó	0

City reports for week ended April 17, 1926-Continued

	Cerebi meni	ospinal ngitis		argie halitis	Pell	agra	Poliom	yelitis (r paralysis	nfantile )
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
SOUTH ATLANTIC									
Delaware: Wilmington Maryland:		1	0	0	. 0	0	0	0	0
Baltimore District of Columbia: Washington	1	1	0	0	0	0	0	0	0
		0	0	0	1	1	0	0	0
RaleighGeorgia:	1	0	0	0	0	1	0	0	0
Atlanta Brunswick	.0	0	0 0	0	0	1	0	0	0 0
EAST SOUTH CENTRAL									
Tennessee:     Memphis	-	0 - 0	0	0	0	0	0	0	0
WEST SOUTH CENTRAL	•					}			
I.ouisiana: New Orleans Shreveport Teas: Galveston	ō	0 0	0	0 0	1 0	0	. 0	0	0
Houston	1	Ŏ	ő	ő	Ŏ	ī	ŏ	ŏ	- 0
MOUNTAIN					•				
Colerado: Denver	0	U	0	1	, 0	0	0	Ú	0
PACIFIC	}				ł L				
Washington: Seattle Spokane California:	2	0	0	0	0	0	0	() ()	0 U
Los Angeles Sacramento San Francisco	2 3 0	1 1 0	0 0 1	0 0 1	1 0 0	1 0 0	0 0 0	1 0 0	0 0 0

The following table gives the rates per 100,000 population for 103 cities for the five-week period ended April 17. 1926, compared with those for a like period ended April 18, 1925. The population figures used in computing the rates are approximate estimates as of July 1, 1925 and 1926, respectively, authoritative figures for many of the cities not being available. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and more than 29,750,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, March 14 to April 17, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925 1

### DIPHTHERIA CASE RATES

				v	Feek en	ded-				
	Mar. 21, 1925	Mar. 20, 1926	Mar. 28, 1925	Mar. 27, 1926	Apr. 4, 1925	Apr. 3, 1926	Apr. 11, 1925	Apr. 10, 1926	Apr. 18, 1925	Apr. 17, 192
103 cities	161	² 120	\$ 162	4 131	170	5 126	152	2 117	155	6 1 1
lew England	141	128	115	139	165	80	161	125	125	4
Iiddle Atlantic	196	125 98	230	142	240	145		125	227	1]
last North Central Vest North Central	125 193	144	101 239	101 146	86 213	7 112 156	91 219	88 200	103 163	1 24
outh Atlantic	129	: 69	90	6 62	77	96	69	86	96	
outh Atlantic last South Central	63	2 28	53	: 39	21	2 61	32	2 121	42	
Vest South Central	92	103	114	155	21 79	60	101	60	70	
Iountain	139	73	129	255	120	146	102	118	231	1
acific.	237	283	3 170	2 <del>1</del> 0	356	202	163	137	160	1
		MEA	SLES	CASE 1	RATES	•			·	
103 cities	487	1 1,786	2 459	1,837	537	1,695	510	2 1,784	564	6 1, 7
New England Middle Atlantic Last North Central	700	1,725	728	1, 347	923	1,463 1,847 1,503	975	1, 572 1, 769 1, 570	881	1,8
liddle Atlantic	595	1,725 1,855	630	1,347 1,835	731	1.847	677	1,769	811	1.6
ast North Central	726	1,991 1,872	747	2.038	685	1,503	658	1,570	681	1, 4
Post Morth Central	i un	1,872	86	2,306 \$ 2,750 2 3,096	74	2,391	56	3, 240	88	1, 4 6 3, 3
outh Atlantic ast South Central Jest South Central Jountain	179	2, 795	129	3 2,750	198	2,671	196	2,652 2 3,218	242	2, 9 2, 7
ast South Central	63	2.403	32	3,096	63	2 3,063	32	3,218	89	2, 7
Vest South Central	40	43	9	125	84	43	48	237	62	1
dountain	355	328	37	310	213 199	555 248	55 229	419 391	259 146	5
Pacific	180	321	3 144	453	193	1 240		1 991	140	. 3
			1		1		<u>                                     </u>		<u> </u>	,
	sc	ARLE	T FEV	ER CA	<u>  </u>			]	li	,
103 cities		ARLE	T FEV	ER CA	<u>  </u>		353	2 274	329	6 2
	411	1	3 403	4 325	SE R.A	TES	353		329	!
	411	² 301	3 403 582	4 325 355 210	SE RA	TES  5 296  392 210	11	² 274 319 176		 
	411	² 301	3 403 582	4 325 355 210 407	SE RA 394 515	TES 5 296	353 510 338 391	2 274 319 176 330	338	
Tew England	411 525 416 460 768	2 301 404 202 340 800	3 403 582 404 449 731	4 325 355 210 407 889	SE RA  394 515 434 412 713	TES  5 296  392 210	353 510 338 391 627	2 274 319 176 330 833	338 341	6
iew England	525 416 460 768 138	2 301 404 202 340 800 158	3 403 582 404 449 731 157	4 325 355 210 407 889 8 156	SE RA  394 515 434 412 713 165	TES  \$ 296  392 210 331 774 175	353 510 338 391 627 144	2 274 319 176 330 833 147	338 341 376 631 157	6
New England  Middle Atlantic Last North Central outh Atlantic	525 416 460 768 138	2 301 404 202 340 800 158 2 154	3 403 582 404 449 731 157 263	4 325 355 210 407 889 8 156 2 149	SE RA 394 515 434 412 713 165 242	TES    \$ 296    \$ 392   210   7 331   774   175   2 231	353 510 338 391 627 627 444 257	2 274 319 176 330 833 147 2 176	338 341 376 631 157 210	6
iew England  jiddle Atlantic ast North Central vest North Central outh Atlantic ast South Central vest South Central Vest South Central	411 525 416 460 768 138 263 128	2 301 404 202 340 800 158 2 154 138	3 403 582 404 449 731 157 263 97	355 210 407 889 8 156 2 149 146	SE RA  394  515 434 412 713 165 242 48	5 296 392 210 7 331 774 175 2 231 86	353 510 358 391 627 144 257 84	2 274 319 176 330 833 147 2 176 116	338 341 376 631 157 210 57	6
iew England  fiddle Atlantic last North Central lest North Central outh Atlantic last South Central Vest South Central	411 525 416 460 768 138 263 128 416	2 301 404 202 340 800 158 2 154 138 246	3 403 582 404 449 731 157 263 97 240	355 210 407 889 8 156 2 149 146 209	SE RA  394  515 434 412 713 165 242 48 268	5 296 392 210 7 331 774 175 2 231 86 146	353 510 338 391 627 144 257 84 250	2 274 319 176 330 833 147 2 176 116 100	338 341 376 631 157 210 57 305	6
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New England Middle Atlantic Cast North Central Vest North Central Outh Atlantic Cast South Central Vest South Central Vest South Central Jountain	525 410 460 768 138 263 128 416 207	2 301 404 202 340 800 158 2 154 138 246 280	582 404 449 731 157 263 97 240 3 211	4 325 355 210 407 889 8 158 2 149 146 209 288	SE RA  394  515 434 412 713 105 242 48 268 182	**TES**    * 296   392   210   7 331   774   175   2251   36   146   251   251   36   36   36   36   36   36   36   3	353 510 335 391 627 144 250 166	2 274 319 176 330 833 147 2 176 116 100	338 341 376 631 157 210 57 305	6
New England  Jiddle Atlantic Last North Central Vest North Central Outh Atlantic Last South Central West South Central Mountain Pacific  103 cities	411 525 410 460 768 138 263 128 416 207	2 301 404 202 340 800 158 2 154 138 246 280 SMAI	3 403 582 404 449 731 157 263 97 240 3 211 LLPOX	4 325 355 210 407 889 8 158 2 149 146 209 288 CASE	SE RA    394   515   434   412   713   165   242   48   268   182   RATE	TES    5 296   392   7 331   774   175   2231   86   146   251   3 42	353 510 338 391 627 144 257 84 250 166	2 274 319 176 330 833 147 2 176 116 100 156	338 341 376 631 157 210 57 305 138	6
New England	525 410 460 768 138 263 128 416 207	2 301 404 202 340 800 158 2 154 138 246 280 SMAI	3 403 582 404 449 731 157 263 97 240 3 211 LLPOX	4 325 355 210 407 889 8 158 2 149 146 209 288 CASE	SE RA  394  515 434 412 713 165 242 48 268 182  RATE	TES    5 296   392   210   7 331   774   175   2 231   86   251   88   5 42   0	353 510 338 391 627 144 257 84 260 166	2 274 319 176 330 833 147 2 176 116 100 156	338 341 376 631 157 210 57 305 138	6 5 6 5
New England	525 410 460 768 138 263 128 416 207	2 301 404 202 340 800 158 2 154 138 246 280 SMAI	3 403 582 404 449 731 157 263 97 240 3 211 2LPOX	4 325 355 210 407 889 8 156 2 149 209 288 CASE	SE RA  394  515 434 412 713 165 242 48 268 182  RATE	TES    5 296   392   210   7 331   774   175   2 231   86   146   251   38   5 42   0 0	353 510 338 391 627 144 257 84 250 166	2 274 319 176 330 833 147 2 176 100 156	338 341 376 631 157 210 57 305 138	6
New England Jiddle Atlantic last North Central Vest North Central Vest North Central Outh Atlantic last South Central Jountain Pacific  103 cities  New England Jiddle Atlantic East North Central Vest North Central	411 525 416 460 768 1388 1283 1283 129 207	2 301 404 202 340 800 158 2 154 138 246 280 SMAI	3 403 582 404 449 157 263 97 240 3 211 CLPOX	4 325 355 210 407 889 8 158 2 149 146 209 288 CASE	SE RA  394  515 434 412 713 165 242 48 268 182  RATE	TES    5 296   392   210   7 331   774   175   2 231   86   251   88   5 42   0	353 510 338 391 627 144 257 84 260 166	2 274 319 176 330 833 147 2 176 116 100 156	338 341 376 631 157 210 57 305 138	6
New England Jiddle Atlantic Last North Central Vest North Central Vest North Central Outh Atlantic Last South Central Jountain Pacific  103 cities  New England Jiddle Atlantic East North Central Vest North Central	411 525 416 460 768 1388 1283 1283 129 207	2 301 404 202 340 800 158 2 154 138 246 280 SMAI	3 403 582 404 449 1157 263 240 3 211 CLPOX	4 325 355 210 407 889 8 158 2 149 146 209 288 CASE - 4 38 0 0 10 57	SE RA  394 515 434 412 713 166 242 48 268 182  RATE  55 12 21 21 22 84 46 46	TES    5 296   392   210   7 331   774   175   225   366   251   386   442   0   7 17   466   41	353 510 358 391 627 144 257 84 250 166	2 274 319 176 330 833 147 2 176 116 100 105 156	338 341 376 631 157 210 57 305 138	6
New England Jiddle Atlantic Last North Central Vest North Central Vest North Central Outh Atlantic Last South Central Jountain Pacific  103 cities  New England Jiddle Atlantic East North Central Vest North Central	411 525 416 460 768 1388 1283 1283 129 207	2 301 404 202 340 800 158 2 154 138 246 280 SMAI 2 36 0 0 0 2 84 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3 403 582 404 449 731 157 263 97 240 3 211 CLPOX 0 7 31 131 63 389	4 325 355 210 407 889 8 156 2 149 146 209 288 CASE 4 38 0 0 10 57 896 2 6	SE RA  394 515 434 412 713 165 248 268 182  RATE	5 296   392 210 7 331 774 175 251 86 146 251 88   5 42   0 0 7 17 46 41 2 105 1	353 510 358 391 627 244 250 166 49 2 2 10 2 10 2 19 4 40 5525	2 274 319 176 330 833 147 2 176 100 156	338 341 376 631 157 210 57 305 138 46 0 18 25 82	6
New England Jiddle Atlantic Last North Central Vest North Central Vest North Central Outh Atlantic Last South Central Vest South Central Jountain Jacities  103 cities  New England Jiddle Atlantic Last North Central Vest North Central Jouth Atlantic Last North Central Jouth Atlantic Last South Central Jeath Atlantic Last South Central Vest South Central Vest South Central Vest South Central Vest South Central	411 525 416 460 768 1388 1283 1283 1297 207	2 301 404 202 340 800 158 2 154 138 246 280 SMAI 2 36 0 0 2 88 49 90 60 2 88 138	3 403 582 404 449 731 157 240 3 211 LLPOX 3 56 0 7 31 131 63 389 101	4 325 355 210 407 889 8 158 2 149 146 209 288 CASE - 4 38 0 0 10 57 8 96 2 61 149	SE RA    394   412   434   412   418   268   182     RATE   22   24   44   44   44   44   44   4	5 296   392 210 7 331 774 175 2231 86 251 88   5 42   0 0 7 17 46 41 2 105 90	353 510 338 391 627 144 257 84 250 166 49 21 21 40 525 48	2 274 319 176 330 833 147 2 176 116 100 156 2 33 0 0 18 51 68 2 94 183	338 341 376 631 157 210 57 305 138 46 0 18 25 82 50 362	6
New England	411 525 416 460 768 1388 1283 1283 1297 207	2 301 404 202 340 800 158 2 154 138 246 280 SMAI 2 36 0 0 0 2 84 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3 403 582 404 449 731 157 263 97 240 3 211 CLPOX 0 7 31 131 63 389	4 325 355 210 407 889 8 156 2 149 146 209 288 CASE 4 38 0 0 10 57 896 2 6	SE RA  394  515 434 412 713 165 262 48 268 182  RATE  55 12 21 22 84 46 378	5 296   392 210 7 331 774 175 251 86 146 251 88   5 42   0 0 7 17 46 41 2 105 1	353 510 358 391 627 244 250 166 49 2 2 10 2 10 2 19 4 40 5525	2 274 319 176 330 833 147 2 176 100 156	338 341 376 631 157 210 57 305 138 46 0 18 25 82 50 362	6

² The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1925 and 1926, respectively.

² Govington, Ky., not included.

³ Spokane, Wash., not included.

⁴ Nortolk, Va., and Covington, Ky., not included.

⁵ Madison, Wis., and Covington, Ky , not included.

⁵ Mt. Joseph, Mo., not included.

⁷ Madison, Wis., not included.

⁸ Norfolk, Va., not included.

⁸ Norfolk, Va., not included.

Summary of weekly reports from cities, March 14 to April 17, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 19?5—Continued

### TYPHOID FEVER CASE RATES

				7	Veek en	ded—				
	Mar. 21, 1925	Mar. <b>20,</b> 1926	Mar. 28, 1925	Mar. 27, 1926	Apr. 4, 1925	Apr. 3, 1926	Apr. 11, 1925	Apr. 10, 1926	Apr. 18, 1925	Apr. 17, 1926
103 cities.	11	2 6	3 10	48	8	³ 10	9	27	11	67
New England Middle Atlantic Enst North Central West North Central South Atlantic East South Central West South Central Most South Central Mountam Pacific	6 8 21 42 22	0 4 3 21 -22 9 9	12 7 8 6 12 73 40 0 3 26	0 10 2 5 16 2 17 9 27 13	5 4 3 2 29 16 31 0	7 8 7 8 17 233 34 36 11	19 16 35	5 3 10 6 211 17	12 12 32	9 7 2 64 4 0 34 9
	I	NFLU:	ENZA I	DEAT	II RAT	ES				-
96 cities	40	76	31	8 97	33	, 789	26	74	26	6 5 1
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	29 46 40 50	45 95 65 31 51 223 156 46 18	29 22 38 44 12 79 34 37 47	69 111 104 38 8 82 254 123 64 14	34 ·21 ·36 ·38 ·27 ·63 ·34 ·176 ·25		16 25 36 25 68 44	31 58 239 71 46	26 24 23 19 10 74 10 37 25	59 67 624 43 47
	F	NEUM	VIKO	DEAT	H RAT	ES				
96 cities	208	372	197	8 372	197	7 335	194	277	184	6 241
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific Pacific	275 263 169	357 503 255 114 349 400 279 200 99	211 198 201 161 232 247 160 194 142	430 493 351 159 330 477 175 191	242 214 171 186 219 247 160 157	468 432 7 321 159 289 358 198 155	204 189 178 220 223 315 160 259 105	359 338 245 154 235 431 170 137 149	199 203 178 165 217 189 92 203 87	* 134 207 332

Group of cities	Number of cities	Number of cities	Aggregate p	opulation of rting cases	Aggregate p	opulation of ting deaths
	reporting cases	reporting deaths	1925	1926	1925	1926
Total	103	96	29, 944, 996	30, 473, 129	29, 251, 658	29, 764, 201
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Pacific	12 10 16 14 21 7 8	12 10 16 11 21 7 6 9	2, 176, 124 10, 346, 970 7, 481, 556 2, 594, 982 2, 716, 070 903, 103 1, 184, 057 563, 912 1, 888, 142	2, 206, 124 10, 476, 970 7, 655, 436 2, 634, 662 2, 776, 070 1, 004, 953 1, 212, 057 572, 773 1, 934, 084	2, 176, 124 10, 346, 970 7, 481, 656 2, 461, 380 2, 716, 070 993, 103 1, 078, 198 563, 912 1, 434, 245	2, 206, 124 10, 476, 970 7, 655, 436 2, 499, 036 2, 776, 070 1, 004, 953 1, 103, 695 572, 773 1, 469, 144

² Covington, Ky., not included. ³ Spokane, Wash., not included. ³ Norfolk, Va., and Covington, Ky., not included. ⁵ Madison, Wis., and Covington, Ky., not included.

St. Joseph, Mo., not included. Madison, Wis., not included. Norfolk, Va., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively

### FOREIGN AND INSULAR

#### SMALLPOX ON VESSEL

Steamship "Benjamin Brewster"—At Key West Quarantine from Rotterdam via Hamburg.—On April 12, 1926, the steamship Benjamin Brewster arrived at Key West Quarantine, Fla., from Rotterdam, Netherlands, via Hamburg, Germany, with a convalescent case of smallpox in a member of the crew. The case was removed and the personnel of the vessel were vaccinated, with the exception of the captain, who had had smallpox. The vessel was remanded to Galveston, Tex., quarantine.

### THE FAR EAST

Report for week ended April 10, 1926.—The following report for the week ended April 10, 1926, was transmitted by the far eastern bureau of the health section of the League of Nations' secretariat, located at Singapore, to the headquarters at Geneva:

							-						
	Pla	gue	Che	olèra		ox		Ple	gue	Със	olera	Sm	all-
Port	Cases	Deaths	Cases	Deaths	Cases	Deaths	Port	Cases	Deaths	Cases	Deaths	Cases	Deaths
Bombay Madras Rangoon Karachi Negapatam Basra Singapore Port Swettenham Penang Batavia Surabaya Samarang Cheribon Belawan Deli Palembang Sabang (Rhio) Makassar Menada Banjermassin Parakan Pontianak (Borneo) Sandakan (North Borneo) Sandakan (North Borneo) Lois (Sarawak) Timor Dilly Manila Hollo Jolo Cebu Zamboanga Bangkok Saigon and Cholon Haiphong Tourane Hongkong Shanghai Amoy Nagasaki Yokohanga Shanghai Ariono Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan Sandakan S	000000104000000000000000000000000000000	107100000010400000000000000000000000000	000000000000000000000000000000000000000	014400000000000000000000000000000000000	36781007700000000000000000000000000000000	20 1 0 4 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Niigata. Tsuruga. Hakodate. Keelung (Formosa). Fusan. Chemulpo. Dairen. Adelaide. Brisbane. Fremantle. Melbourne. Sydney. Rockhampton. Townsville. Port Darwin. Broome. Port Moresby. Auckland. Wellington. Christchurch Invercargill. Noumea (New Caledonia). Honolulu. Sucz. Tor (quarantine station). Alexandria. Port Said. Port Sudan. Mombasa (Kenya). Massowah. Djibutt. Berbera. Mozambique. Lourenco Marques. Durban. East London. Port Eitzabeth. Cape Town. Port Louis (Mauritius). Seychelles.	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000

#### CANADA

Communicable diseases—Week ended April 17, 1926.—The Canadian Ministry of Health reports certain communicable diseases in seven Provinces of Canada for the week ended April 17, 1926, as follows:

Disease	Nova Scotia	New Bruns- wick	Quebec	Ontario	Manitoba	Saskatch- ewan	Alberta	Total
InfluenzaSmallpoxTyphoid fever	115		1 15	10	2 4 1	17	3	117 34 20

¹ For week ended Apr. 10, 1926, 8 cases reported.

#### **ECUADOR**

Plague—Guayaquil—March, 1926.—During the month of March, 1926, 12 cases of plague with 6 deaths were reported at Guayaquil, Ecuador.

Plague-infected rats found.—During the same period 19,744 rats were taken at Guayaquil, and 137 rats found infected.

#### EASTER ISLAND

Leprosy.—Under date of March 16, 1926, leprosy was reported present on Easter Island with 12 cases.

### GREAT BRITAIN (SCOTLAND)

Epidemic measles—Glasgow—March, 1926.—The outbreak of measles which was reported during the months of January and February, 1926, at Glasgow, with 4,519 cases and 65 deaths occurring in January and 5,986 cases in February, 1926, was stated to have decreased during March, 3,684 cases being reported in that month.

Respiratory diseases.—Prevalence of influenza and pneumonia was reported during the latter part of March, 1926, with 725 cases of pneumonia and 39 of acute influenza pneumonia during a fourweek period. Population, 1,034,500.

### INDO-CHINA (FRENCH)

Cholera, plaque, and smallpox—November-December, 1925.—During the months of November and December, 1925, cholera, plague, and smallpox were reported as follows in French Indo-China: November 1925—cholera, 1 case; plague, 2 fatal cases; smallpox, 142 cases, 24 deaths. December, 1925—cholera, 3 cases, 2 deaths; plague, 1 fatal case; smallpox, 188 cases, 24 deaths. For distribution of occurrence according to Provinces, see pages 911, 912, 913.

Public Health Reports, Apr. 2, 1926, p. 639.

911 May 7, 1926

### UNION OF SOUTH AFRICA

Plague—Orange Free State—March 7-13, 1926.—During the week ended March 13, 1926, 3 cases of plague were reported in the Orange Free State of the Union of South Africa. The occurrence was in the district of Hoopstad. at Bultfontein Area, with 1 case in a European, and in the district of Winburg, with 2 cases, 1 European and 1 native.

Typhus fever—February, 1926.—During the month of February, 1926, 69 cases of typhus fever with 10 deaths were reported in the Union of South Africa. Of these, 64 cases with 10 deaths occurred among the colored or native population, and 5 cases among the European population. For distribution of occurrence according to locality see page 913.

### VIRGIN ISLANDS

Communicable diseases—March, 1936.—Communicable diseases were reported in the Virgin Islands of the United States during the month of March, 1926, as follows:

Disease and Island	Cases	Remarks
St. Thomas and St. John: Chancroid Fish poisoning Gonorrhea Influenza Malaria St. Croix: Chancroid Filariasis Gonorrhea Syphilis Tetanus	114 11 5 11 22	St. John. Malignant tertian; imported. Bancrofti. Secondary.

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given

### Reports Received During Week Ended May 7, 1926¹ CHOLERA

Place	Date	Cases	Deaths	Remarks
India: Calcutta	Mar. 7–13 Mar. 21–27 Mar. 7–20	66 17 3	55 9 2	Nov. 1-30, 1925: Cases, 1. Cor-
Province— Cambodia Cochin China Tonkin Philippine Islands Province—	Dec 1-31 do Nov. 1-30	2 1 1	1	responding period, 1924—1 ease. Dec. 1-31, 1925 Cases, 3; deaths, 2. Corresponding period, 1924—cases, 5; deaths, 2.
Batangas  Batangas  Rizal.  Do  Romblon  Siam:  Bangkok.	Feb 14-20	6 3 1 2 185	6 1 1 133	

¹From medical officers of the Public Health Service, American consuls, and other sources

### Reports Received During Week Ended May 7, 1926—Continued

### PLAGUE

Place	Date	Cases	Deaths	Remarks
-				
Ceylon: Colombo	Fab 28-Mar 6	1	2	
Colonioo Ecuador:	ren 26-Mar. 6	1	4	
Guayagui'				March 1026 Cases, 12 deaths
Guetadan				March, 1926: Cases, 12; deaths 6. Rats taken 19,744; found infected, 137.
Egypt:				imedica, 131.
City—	Mar. 27	1		
Suez Province—	Mnr. 2/	1	1	•
Gharbieh	Mar. 28-30	4	2	
India:	Mon 7 19	4	2	
Bombay Madras Presidency	Mar. 7–13 Feb. 28–Mar 6	104	64	,
Rangoon	Mar. 7-20	48	40	i 1
Indo-China	191AL. 7-20		<del>1</del> 0	Nov. 1-30, 1925: Cases, 2; deaths
Province-		1		2. Corresponding period 1924—cases, 11; deaths, 10 Dec. 1-31, 1925; Case, 1; death 1. Corresponding period
Cambodia	Nov. 1-30	2	2	1924—cases, 11; deaths, 10
Cochin China	Dec 1-31	1	1	Dec. 1-31, 1925; Case, 1; death
				1. Corresponding period
_				1924—cases, 11; deaths, 10.
Iraq:	7 . 05 35 . 10	٠.		
Bagdad	Feb. 28-Mar. 13	19	7	
Java:	Mar 8-19	41	40	Province.
Batavia Probolinggo Surabaya	Toh 19	**1	10	Epidemic. Port.
Surahaya	Feb 14-27	6	6	Epideinic. Tore.
Madagascar.	100.11 2	l	l	Feb 1-15, 1926; Cases, 169
				deaths, 158. Bubonic—cases, 92; deaths, 81. Pneumonic—cases, 43; deaths, 43. Septicemic—cases, 34; deaths, 34.
	P. Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Con	l	i	92; deaths, 81. Pneumonic-
Province—		İ	l	cases, 43; deaths, 43. Septi
Fort Dauphin	Feb. 1-15	1	1	cemic—cases, 31; deaths, 34.
Fort Dauphin  Itasy  Moramanga.  Tananarive	do	29	29	Miatinarivo
Moramanga	00	130	5 91	Managed town Come 4
Tananarive	uo	190	91	Tananarive town: Cases, 4 deaths, 4. Other localities
	İ		1	Cases, 126; deaths, 117.
Tamatave (town)	do	4	2	1
Madagascar Moramanga Province				Peb. 16-28, 1926: Cases, 198 deaths, 194. Bubonic—cases 51; deaths, 48. Pneumonic— cases, 29; deaths, 28. Septi
Moramanga Province	Feb. 16-28	6	5	deaths, 104. Bubonic-cases
Tananarive Province— Tananarive town Other localities	1 _		1	51; deaths, 48. Pneumonic-
Tananailve town	do	10	10	cases, 29; deaths, 28. Septi
Siam:	.jao	92	89	cemic—cases, 18; deaths, 18.
	Feb. 28-Mar. 13	5	l	
Bangkok Union of South Africa	1 co. 40 Mai. 15			Mar. 7-13, 1926: Cases, 3; Euro
Orange Free State—				pean, 2.
Hoopstad district	Mar. 7-13	1	l	European.
Orange Free State— Hoopstad district——— Winburg district———	do	2		On farms. European, 1; native
Victoria de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la				1.
	SMAI	LLPOX	,	
Canada:	1			_
Alberta				Apr. 11-17, 1926: Cases, 3. Apr. 11-17, 1926: Cases, 4. Apr. 11-17, 1926: Cases, 10.
Manitoba				Apr. 11-17, 1926: Cases, 4.
Ontario Sarnia Saskatchewan	1 mm 'd' 777			Apr. 11-17, 1926: Cases, 10.
Carlotohoman	Apr. 4-1/	3		Ann 11 17 1006: Clames **
				Apr. 11-17, 1926: Cases, 17.
Foochow.	Feb. 14-20	1		Present.
Hangkang	Feb 27-Mar 13			A ACCUMENT

		1	1	
Canada:		İ	1	
Alberta	ł	i	1	Apr. 11-17, 1926: Cases, 3.
Manitoba				Apr. 11-17, 1926: Cases, 4.
Ontario				
				Apr. 11-17, 1926: Cases, 10.
Sarnia	Apr. 4-17	3		
Saskatchewan		1		Apr. 11-17, 1926: Cases, 17.
China:	İ	1	1	
Foochow.	Feb. 14-20	1		Present.
Hongkong	Feb. 27-Mar. 13	2	1	
Manchuria—		-	-	
Harbin	Mar. 12-18	5	1	
Swatow	Mar. 14-20	٥		Prevalent.
France:	Mai. 14-20			Frevalent.
				,
Paris	do	4		·, *
Cient Dillain,				,
England and Wales				Apr. 4-10, 1926; Cases, 190.
Newcastle-on-Tyne	Mar. 28-Apr. 10	5		
Nottingham	Mar. 7-13	3		1+ 7
India:				
Bombay	Mar. 7-13	28	18	
Calcutta		65		
Condition	LLU,	00 1	46	

913

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

### Reports Received During Week Ended May 7, 1926-Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
India—Continued Karachi Madras Rangoon		10 7 32	3 1 3	
Indo-China Province—				Nov. 1-30, 1925; Cases, 142 deaths, 24. Corresponding pe-
Annam Do Cambodia Do Cochin Chinn Do Tonkin Do Mexico:	Nov. 1-30 Dec. 1-31 Nov. 1-30 Dec. 1-31 Nov. 1-30 Dec. 1-31 Nov. 1-30 Dec. 1-31	88 1 11 31 14	5 16 1 3 17 4 1	riod, 1924—cases, 187; deaths 47. Dec. 1-31, 1925; Cases, 188 deaths, 24. Corresponding pe riod, 1924—cases, 483; deaths 114. Reported present in Laos.
San Luis Potosi Persia:	Mar. 21-Apr. 17	15		
TeheranPoland	Dec. 22-Jan. 20		70	Jan. 1-16, 1926: Cases, 4,
Portugal	Mar. 1-28		6	Jan. 1-10, 1920: Cases, 4.
Siam. Bangkok.	Feb. 21-Mar. 6	17	12	
Spain: Valencia	Apr. 4-10	1		
	TYPHUS	S FEVE	<u>.                                    </u>	
Algeria:				
Algiers	Mar. 21-31			-
Valparaiso	Mar. 21-27		1	
Antung Shanghai Mexico:	Mar. 8-14 Mar. 14-20	4		
Mexico City	Mar. 21-27	4		Including municipalities in Federal District.
Peru: Arequipa Tunisia:	}		1	ciai District.
Tunis	Mar. 21-31	3		February, 1926: Cases, 64: death; 10, in native population; in
Union of South Africa			1	European population, 5 cases

## Reports Received from December 26, 1925, to April 30, 1926 ¹ CHOLERA

Place	Date	Cases	Deaths	Remarks
Chosen	October-Novem- ber, 1925. Dec. 1-31	12 880	712	Oct. 18, 1925, to Jun. 2, 1926.
Calcutta Do Do	Nov. 1-28 Dec. 6-26 Dec. 27-Jan. 16 Jan. 24-Mar. 6	101 255	89 54 41 244	Cases, 21,316; deaths, 12,371. Jan. 3-Feb. 6, 1926: Cases, 17,858; deaths, 10,050.
Madras Do Rangoon Do Do Do Do Do Do Do Do Do Do Do Do Do	Nov. 15-Jan. 2 Jan. 3-Mar. 20 Nov. 8-Dec. 5 Jan. 24-Mar. 6	174 123 4 6	70 76 4 4	,

¹ From medical officers of the Public Health Service, American consuls, and other sources.

## Reports Received from December 26, 1925, to April 30, 1926—Continued

### CHOLERA-Continued

Place	Date	Cases	Deaths	Remarks
Indo-China				September, 1925; Cases, 9; deaths.
Province-				5. September, 1924: Cases, 7;
Annam	Sent 1-30	2	2	deaths, 4. (European cases, 2.)
Cochin China	do	2 5	3	dettine, i. (i.diopean tabob, b.,
Salgon	Jan. 4-17	$\tilde{2}$	2	Including 100 square kilometers
Tonkin.	September, 1925	2		of surrounding country.
Japan	Aug 30-Oct. 17	409		or sarrounding country,
Do	Oct. 25-Dec. 26	113		
Philippine Islands:	Oct. 25 Dec. 201121			
Manila	Nov. 9-Jan. 3	15	10	
Do	Jan 4-Mar. 6	3	27	
Province-	VIII 1 111111. V			
Bataar	Nov. 30-Dec 26	29	25	
Do	Jan 2-16	1	ĩ	<b>'</b>
Batangas	Jan. 24-Feb. 13	7	7	
Bohol	Jan. 23-30	i	l i	, ,
Bulacan	Oct. 18-Nov. 7	92	64	
Do	Nov. 23-Dec. 31	200	88	
Do		-206	6	,
Laguna	Nov. 23-Dec. 26	18	14	'
Do		15	6	'
Leyte	Jan. 3-9	ទ	2	
Mindoro	Dec 20-31	5 2 35	30	
Nueva Ecila		7	5	į
Pampanga	Nov. 1-7	í	1	
Do	Nov. 23-Dec. 31	113	85	,
· Do	Jan. 2-Feb. 20	38	34	1
Rizal	Sept. 27-Nov. 21.	75	21	1
Do		14	11	1
Do		85	29	1
Rombion	Nov. 8-Dec. 13	25	13	į.
Russia.		7	10	1
Do	July-August	1 4		1
Siam:	July-August	*		1
Bangkok	Oct. 4-Nov. 14	108	68	
Do	Nov. 22-Dec. 26	270		
Do	Dec. 27-Feb. 20	213	149	
On vessel:	Dec. 21-Feb. 20	210	142	1
Steamship	Oct. 3	9	1	Arrived at Bangkok, Siam:
mannanib	VU6- 0			
. <del>-</del>		1	1	Cases in coone passengers.
t				Cases in coolie passengers.

### PLAGUE

		ì	1	
Argentine				Tom 04 90 1000 C seems
Buenos Aires	Jan. 24-30	1		Jan. 24-30, 1926: 6 cases, occur-
	Jan. 24-90	1		ring in interior Provinces of
Azores:				Salta and Santa Fe.
St. Michaels	Jan. 17-30	4	. 2	
Do	Feb. 7-13	1		In outskirts of city of Ponta
	i	!		Delgada.
Belgium:		•	1	Grants
Vilvorde	Dec. 1-8	1	,	-
Brazil:	Dec. 1-0			
Bahia.	Nov. 8-Dec. 28	3		
		0	1 2 2	
Do	Dec. 27-Jan. 30	4	. 2	
Santos	Dec. 8-21		2	
Sao Paulo	Reported Mar. 25.	4	1	,
British East Africa:	<b>,</b> -			,
Kenya—		'		
Kisumu	Nov. 22-Dcc. 5	1	2	
Do	Jan. 31-Feb. 27	4	3	
Uganda Protectorate	Sept. 1-Dec. 31	468	426	
Canary Islands:	Dept. 1-Dec. 31	400	4.20	4
	73			
La Laguna	Dec. 24	3	2	,
Las Palmas	do	1		
Do	Jan. 7	1	. 1	•
Santa Cruz de Tenerifie	Dec. 18-27	3		
Do	Dec. 28-Feb. 1	3		
Celebes:				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Makassar	Dec. 29-Feb 2	- 12	12	Netherlands East Indies.
Ceylon:		12	, 44	methenands mast indies.
Colombo	Arou IT Dee F		_	
	Nov. 15-Dec. 5		3	1 plague rodent
Do	Dec. 27-Jan. 16	2	2	
Do	Jan 24-Feb. 27	4	3	Feb. 14-20, 1926: Two plague
The fact of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	1	'	, ,	rodents.

### Reports Received from December 26, 1925, to April 30, 1926—Continued

### PLAGUE-Continued

Place	Date	Cases	Deaths	Remarks
China:				
Nanking	Nov. 15-Mar. 27			Prevalent.
Ecuador: Eloy Alfaro	Top 1-15	1		
Guayaguil	Nov. 1-Dec. 31	31	19	•
Guayaquil Do	Jan. 1-15 Nov. 1-Dec. 31 Jan. 1-Mar. 15	59	29	Rats taken, Nov. 1-Dcc. 31, 1925, 49,370; rats found infected, 281. Rats taken, Jan. 1-Mar. 15, 1926, 54,393; rats found infected, 477.
Recreo (country estate)	do	1		Jan. 1-Dec. 9, 1925. Cases, 138,
Alexandria Beni Suef	Mar. 10-18 Nov. 18 Dec. 3-9	2	1	,
Beni Suef	Nov. 18	1	1	
Fayoum ProvinceGharbia Province	Mar. 9	1	1	
Minia Province	Mar. 4	î	i	
Greece:		_		
Athens	Nov. 1-30 Jan. 1-Mar. 31	18	1	Including Pireus.
Do Herakleion	Jan. 1-Mar. 31	25 1	4	On joland of Creta
Potros	Feb. 4 Nov. 13-Dec. 12	4	1	On island of Crete.
Patras Hawaii Territory	Feb. 2			1 plague-infected rodent found
Hawaii—	'			near Hamakua Mill Co.
Kakuihaele	Mar. 19 Mar. 16	1	1	
HonakaaPaauilo	Mar. 16	2		I death suspected plague.
raumo				<ul> <li>I deam suspected plague.</li> <li>Jan. 29, 1926: Plague-infected rat found in vicinity.</li> <li>Oct. 18, 1925, to Jan. 2, 1926: Cases, 15,135; deaths, 10,677.</li> <li>Jan. 3-Feb. 6, 1926: Cases, 17,402; deaths, 13,598.</li> </ul>
India				Oct. 18, 1925, to Jan. 2, 1926:
Bombay Do Calcutta	Dec. 6-12 Jan. 3-Feb. 20 Dec. 6-12	1	1	Cases, 15,135; deaths, 10,677.
Do	Jan. 3-Feb. 20		8	Jan. 3-Feb. 6, 1926: Cases,
Karachi	Mov 1-Dog 10	4	1	17,402; deaths, 13,598.
Do	Feb. 21-Mar. 6	3	3	
Do Madras Presidency	Oct. 25-Nov. 7	75	41	
Do	Nov. 15-21	35	22	,
Do	Nov. 1-Dec. 19 Feb. 21-Mar. 6 Oct. 25-Nov. 7 Nov. 15-21 Dec. 20-26	108	64	
Pangoan	Jan. 3-Feb. 20 Oct. 25-Dec. 26	971 23	617 15	
RangoonDo	Dec. 27-Mar. 6	45	43	• •
Indo-China				September-October, 1925: Cases,
Province—	Cont 1 20	11	i	25; deaths, 23.
Province— Cambodia Cochin China	Sept. 1-30 September-Octo-	14	11	į
Comm , minimize	ber.		•	
Iraq:				
Bagdad	Dec. 13-Jan. 2 Jan. 10-Feb. 27	7	3	<u>'</u>
Java:	Jan. 10-Feb. 27	56	37	
Batavia	Oct. 24-Nov. 6	94	S9	Province.
Do	Nov. 14-Jan. 1	315	297	
Do	Jan. 2-Mar. 5	442	428	
Cheribon	Sept. 27-Oct. 17		166	
Do	I Tom 9-Wak &		198 8	
Do Djokjakarta Kodiri	Oct. 20-Nov. 9 Dec. 7			Epidemic in 1 locality.
Kediri	Dec. 7			Do.
Koeningan Pekalongan	Dec. 27-Jan. 16 Sept. 27-Oct. 17 Nov. 8-Dec. 26		114	
Pekalongan	Sept. 27-Oct. 17		42 252	
Do Rembang			202	Do.
Surahava	Oct. 11-Dec. 26	59	59	1 20.
Do	Dec. 27-Feb. 13	34	34	
Surabaya Do Tegal Do	Dec. 27-Feb. 13 Sept. 27-Oct. 17 Nov. 8-Dec. 26	6	6	
Do	Nov. 8-Dec. 26		31	Nov 1-December 1005, Come
Madagascar Province—		·		632: deaths, 593, Jan. 1-31
Ambositra	Dec. 16-31	. 9	7	Nov. 1-December, 1925: Cases 632; deaths, 593. Jan. 1-31 1926: Cases, 334; deaths, 303
Do Itasy	Jan. 1-15. Sept. 16-Oct. 31 Nov. 16-Dec. 31	2	2	1
Itasy	Sept. 16-Oct. 31	20	20	
Do	NOV. 16-LIEC. 31	34 29	34 29	
Do Moramanga	Sept 16-Dec 21	49	48	
Do	Jan. 1-31	35	34	1
Tananari ve	Sept. 16-Nov. 30	368	341	
Do	Dec. 16-31	. 152	143	1
Do	Jan. 1-31	.! 258	227	1

### Reports Received from December 26, 1925, to April 30, 1926-Continued

### PLAGUE-Continued

Place	Date	Cases	Deaths	Remarks
Madagascar—Continued.				
Town- Fort Dauphin	Sept. 16-Nov. 30	6	3	
Do	Jan. 16-31	1	1	
Tamatave (port)	Sept. 16-30 Oct. 16-Nov. 30	3	2	
Do Tananarive	Sept. 16-30	9 2	9 2	
Do	Nov 1-30	11	11	
Do Mauritius Island	Jan. 1-31 Sept. 20-Dec. 25	9	9	
Mauritius Island	Sept. 20-Dec. 28	21	18	
Moca Pamplemousses	Doc. 1-31 Oct. 1-Nov. 30	2 3	2 2	
Port Louis		10	9	
Invière du Rempart	October	2		
Nigeria Persia:	Aug. 1-Nov. 30	559	419	
Teheran	Oct. 21-Nov. 21		12	
Peru				January, February, 1926: Cases 290; deaths, 111.
Tuncho	Ton OC	7.5		290; deaths, 111.
Huacho Lima	Jan. 26 Jan. 1–31	15 20		Port 60 miles north of Gallao. In hospital. Some cases in Prov
		20		ince.
Mollendo	do			12 or 15 cases reported unoffi
Russin	May-June	67	1	cially.
Russia Do	July-October	166		•
Senegal	September-Octo-	45	25	
Siam	ber Aug. 23-Dec. 26	02	=0	
Bangkok	Nov. 15-28	65 3	53 3	
Do	Jan 3-30	38	33	
Bangkok Do Do Do Station	Feb. 7-20	6	5	•
Straits Settlements: Singapore	Nov. 1-Dec. 5	s	8	
Do	Jan. 3-9	2	2	
Byria:		1	-	
Beirut	Nov. 11-20 Jan. 21-31	1		
Do Union of South Africa;	Jan. 21-51	1		
Cape Province—		1	1	
Kimberley district	Dec. 13-19	1		T
Middleburg district	Dec. 6-12 Nov. 15-21	1 1		European. Native. On farm.
Steynsburg district Winburg district Orange Free State—	Feb. 21-27	i		Tractive. Gir and Inc.
				l
Boshef district  Bothaville district  On vessel	Nov. 29-Dec. 5 Dec. 6-12	1 1	1 1	In native. Native. On farm.
On vessel:	1266. 0-12	1	1	1
Steamship Cid		]		Jan. 29, 1926. At Buenaventura Colombia. Rat was killed
		1		Colombia. Rat was killed
		1	1	while jumping ashore from vessel.
i		l	i	T COSCIT
	SMAI	LLPOX		
			1	
Algeria:	37			
Algiers Do	Nov. 21-Dec. 31	177 64		
Do	Jan. 1–10 Jan. 21–Mar. 20	72		
Arabia:		1		
Aden	Nov. 29-Dec. 5 Jan. 10-Mar. 6	10		Imported.
Do		10	1	
Rosario.	October		1	
		1	-	_
Australia:		I	1	
Australia: Queensland—	Dag 0_15	4		
Australia: Queensland— Brisbane	Dec. 9-15 Feb. 23	1		In Nassan district Stated to
Australia: Queensland— Brisbane Bahamas	Dec. 9-15 Feb. 23	1		In Nassau district. Stated to have been imported.
Australia: Queensland— Brisbane Bahamas  Bengil:	Feb. 23	1		In Nassau district. Stated to have been imported.
Australia: Queensland—	Feb. 23 Dec. 1-31	1	12 6	In Nassau district. Stated to have been imported.

# Reports Received from December 26, 1925 to April 30, 1926—Continued SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
Brazil—Continued. Rio de Janeiro Do. Do. British East Africa:	Nov. 1-28 Dec. 6-26 Dec. 27-Feb 20	134 65 195	72 26 131	
Kenya— Mombasa Do Uganda Protectorate British South Africa:	Nov. 15-Dec. 19 Dec. 27-Jan. 2 Sept. 1-Oct 31	14 1 8	6	From mainland.
Northern Rhodesia Southern Rhodesia Canada	Jan. 5-11 Nov. 13-Dec. 23	3		Sept. 13-Jan. 2: In 7 Provinces, 136 cases. Jan. 3-Feb. 27, 1926:
Alberta Calgary British Columbia— Vancouver	Dec. 13-19	1 2		Cases, 277.  Jan. 3-Apr. 3, 1926: Cases, 55.  From Drumheller, vicinity of Calgary.
Victoria Manitoba Winnipeg Do	Mar. 21-27 Dec. 13-19 Jan. 3-Apr. 10	2 2 16	1	Jan. 3-Apr. 3, 1926: Cases, 44.
New Brunswick— Northumberland Ontario	Dec. 6-13			Dec. 1-31, 1925. Cases, 32. Jan. 3-Apr. 3, 1926: Cases, 204.
Admaston Alice and Fraser King Wilmot	Feb. 1-28dodo	16 6 7 6		Township. Do. Do. Do.
Belleville Kingston Kitchener North Bay	Mar. 8-14 do Feb. 14-Mar. 14	4 1 26 7		
Ottawa Do Sarnia Toronto Do	Jan. 3-Feb. 6 Mar. 14-20	2 1 1 26		
Trenton Saskatchewan Moose Jaw Regina	Jan. 3-Mar. 20	15 2 3		Jan. 3-Apr. 3, 1926; Cases, 73.
SaskatoonCeylon: ColomboDo	Feb. 14-20 Dec. 6-12 Jan. 3-Feb. 6	1 1 5	4	Port case.
Chile: Punta Arenas Do China:	Dec. 13-26 Dec. 27-Jan. 2		8 4	
Amoy	Oct. 25-Dec. 19 Jan. 10-Mar. 20 Dec. 7-20 Feb. 21-27	2	16 16	Present.
Do Foochow Hankow	Nov. 15-27 Feb. 28-Mar. 20 Nov. 1-Mar. 6 Nov. 14-Dec. 26 Jan. 10-Mar. 6	4		Do. Do. Do.
Do	Jan. 3-Feb. 27	4	, ,,,4	
An-shan Do Changchun Dairen	i do	9	15 ,12 13 24	
DoFushun	Jan. 1-Mar. 11 Jan. 10-30	.1 4	710 10 88	-
Lio-vang	Jan 31-Feb 20 Jan. 17-Mar. 20	3		]

## Reports Received from December 26, 1925, to April 30, 1926—Continued

### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
'hina-Continued.				The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
Manchuria—Continued.				
Mukdén	Oct 24-Nov. 15 Jan. 24-Feb. 27	1		
Do	Jan. 24-Feb. 27	4		
Subing Kai	Mar 14-20 Oct. 26-Nov. 15. Nov. 21-Dec. 26. Dec. 27-Mar. 27. Oct. 25-Jan. 2	1		
Tieh-ling	Oct. 26-Nov. 15	2		n-
Nanking.	Nov. 21-Dec. 26			Do.
D0	Dec. 27-Mar. 21	37		Do .
Shanghai Do	Jan. 3-Mar 13	56	36 131	Cases, foreign only,
D0	Nov. 22-Mar. 13	90	191	Pravalent.
Swatow	Nov. 1-Dec. 19			Figrateut.
Tientsin Do	Nov. 1-Dec 19 Jan 23-Feb. 27	2		
Chosen:	Jan 25-1611. 21	1 -		]
Seishin	Jan. 1-Feb 28	48	27	
Fornt	Jul. 1-100 10:1111	1		
Egypt: Alexandria	Dec 3-31	5	2	
Do	Jan 8-14	2	I	
Do	Jan. 29-Mai. 4	22	6	
Port Said	Feb. 26-Mar. 4	1		
Esthonia				November, 1925. Cases, 3. September-December, 1925:
France				September-December, 1925:
Harre	Jan. 25-31		9	('ases, 253.
Paris	Mar. 1-10	5	1	1.0
Gold Coast	September, De-	58	. 5	
	cember.	1		1
Great Britain:	1	l .	,	
England and Wales				Nov 15-Dec. 26, 1925; Cases, 76 Dec. 27-Apr 3, 1926; Cases, 3,61
Hull	Dec. 27-Jan. 23 Feb. 7-Mar. 27	29		Dec. 27-Apr 3, 1926: Cases, 3,61
Do	Feb. 7-Mar. 27	9		
Leeds		4		_
London	. Jan. 31-Feb. 6		1	•
Newcastle-on-Tyne Do Nottingham	Jan. 31–Feb. 6. Nov. 29–Dec. 19 Dec. 27–Mar. 27 Nov. 22–Dec. 26	6		
	Dec. 27-Mar. 27	35	1	2.1
Nottingnam	Nov. 22-Dec. 26	9		
Do.	Dec. 27-Feb. 27 Nov. 22-Dec. 12 Dec. 20-26	, 0		1
Sheffield	Nov. 22-Dec. 12	7		
Do	Dec. 27-Mar. 20	. 18		
Do.	Feb. 9	. 19		D. montael suscessed to comment form
Greece South Shields		·		Reported present in severe form Oct. 1-31, 1925 Cases, 16.
Athens.	Nov. 1-Dec. 31	18	1	Oct. 1-11, 1820 ( uses, 10.
Do	Jan. 1-Mar. 31	87	6	l '' .
Kalamata	Mar. 1-7.	i	, ,	From Patras.
Saloniki	Feb. 16-Mar. 15	1	2	•
India		1		Oct. 18-Dec. 26, 1925; Case 19,472; deaths, 4,440; Dec. 2 1925-Feb. 6, 1926; Cases, 36,33
Bombay.	Nov. 8-Dec. 26 Dec. 27-Mar. 6	26	20	19.472; deaths, 4.440; Dec.
Do	Dec. 27-Mar. 6	172	95	1925-Feb. 6, 1926; Cases, 36,33
	1, -	1	I	deaths, 11,491.
Calcutta	Nov. S-Dec. 26	. 48	25	
Do	Dec. 27-Mar. 6	431	262	
Karachi	Nov. 1-21 Nov. 29-Dec. 5 Dec. 13-19	.] 23	l	1
Do Do	. Nov. 29-Dec. 5	. 4	2	
Do	.] Dec. 13-19	. 3		1
Do	. Dec. 29-Mar. 13	. 84	26	<b>1</b>
Aladras	Nov. 15-Dec. 26	. 17	5	. '
DoMadras Do	Dec. 27-Mar. 20	. 114	21	1
Rangoon		. 3		1
Do	Dec. 6-26. Dec. 27-Jan. 16. Jan. 24-Mar. 6.	. 4	1	
<u>D</u> o	Dec. 27-Jan. 16	. 13	1	ĺ
Do	4an. 24-Mar. 6	. 70	. 17	Company of the Company of
Inde-China Province—			ļ	September-October, 1925; Caso
Annam	Sept. 1-Oct. 31	1 00	00	204; deaths, 62.
Cambodia	do	90 72	23 30	٠ ١
Cochin China	40	61	30	
Saigon	Dec. 21–27	2		. ' * *
Do	Jan. 1-Mar. 7	111	. 1	Including 100 kilometers of su
W V		1 **		rounding country
Tonkin.	Sept. 1-Oct. 31	22	1 -	rounding country.
Iraq:	.,	1 -2		5,000
Iraq: Bagdad Do	Nov 1-Den on	19	72	Sant 8-Oat 17 1002. C
Do	Nov. 1-Dec. 26 Dec. 27-Feb. 27	19	15	Sept. 6-Oct. 17, 1925: Cases, 8 denths, 40.
··* · Basra	dodo	52	42	
italy			3.4	Aug. 2, 1925: Jan 9 1998: Cana
Catania	Feb. 15-28	1	1	Aug. 2, 1925: Jan. 2, 1926: Case 52. Jan. 3-16, 1926: Cases, 1
Geallicannananan				
Gerios	Jan. 21-Feb. 10 Oct. 12-25	1 4		021 0412. 0 10j 1020. Cando, 1

# Reports Received from December 26, 1925, to April 30, 1926—Continued SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
Jamaica.				Nov. 29-Dec. 26, 1925; Cases 95
				Nov. 29-Dec. 26, 1925: Cases, 95, Dec. 27, 1925-Feb. 27, 1926: Cases, 260. Mai. 21-Apr. 3, 1926: Cases, 66. Reported as
·	37 00 70 00	40		aiastrim.
Kingston Do. Do.	Nov. 29-Dec. 26 Dec. 27-Jan. 30	43 48		Reported as alastrim. Do.
Do	Mar. 21-27	5		Do.
Japan ·	i			
Nagasaki	Feb. 15-21	1		
Taiwan. Yokohama	Nov. 11-Dec 10	3		
Do	Dec. 14-20 Feb. 23-Mar. 14.	46	5	
Java:			_	
Batavia	Oct. 24-Dec. 25	8		
Do Buitenzorg	Feb. 20-Mar. 5 Nov. 29-Dec 5	5 1		
Cheribon	Nov. 8-Dec. 12	2		
Do	Jan. 31-Feb. 6 Oct. 11-17		1	
Kraksaan	Oct. 11-17	11		
Malang North Bantam	Oct. 11-Jan. 16 Oct 4-17	13 4		
Pekalongan	Oct. 25-31	1		
Pontianak	Jan. 31-Feb. 6 Oct. 11-17		1	
Probolingo	Oct. 11-17	1		
South Bantam	Oct 11 Dec 20	633	104	
Surabaya Do	Oct. 11-Dec. 26 Dec. 27-Feb. 13	131	40	
Tegal	Oct. 4-10	9	ĩ	
Latvia				December, 1925 Cases, 3.
Malta	Nov. 1-Dec. 21	21	3	
Do	Jan. 1-Feb. 28	20		July-September, 1925 Deaths,
Aguascalientes	Dec. 13-Jan. 2	4	3	1.157.
Do	Jan. 3-30		! 7	
Do	Feb. 14-Mar. 27		12	
Durango	Dec. 1-31		1 2	,
Guadalajara	Dec. 27-Apr. 6		16	
Mexico City	Dec. 27-Apr. 6 Nov. 28-Dec. 5	1		Including municipalities in Fed-
Do	Jan. 3-Mar 27	7		eral District.
Saltillo	Apr. 4-10	i		, 20.
San Luis Potosi	Apr. 4-10 Jan. 17-Mar. 20		53	•
Do	Mar. 28-Apr. 10		14	•
Tampico	Mar. 28-Apr. 10 Dec. 21-Jan. 2 Jan. 2-Mar. 10	1 8	1	
Torreon	Nov. 1-Dec 31		51	,
Do	Jan. I-Mar 31	l	. 65	
Vera Cruz	Mar. 29-Apr. 4	5	1	
Netherlands: The Hague	Jan. 30-Mar. 6	2	1	
Nigeria	Joan oo Bran o	1		August-November, 1925: Cases
4		1	1	347; deaths, 6.
Palestine:	Jan. 26-Feb. 1	2	1	
Hebron Tiberias	Feb. 9-15	í		-
Persia:		- "		
Teheran	July 23-Dec. 22		775	-
Peru:	Oct. 1-Dec. 31	1	2	1
Arequipa	Oct. 1-Dec. 31		-	Nov. 1-28, 1925: Cases, 9.
Portugal:				1
Lisbon	Oct. 4-31	- 124		
Do	Nov. 16-Dec. 27 Nov. 14-Dec. 26	187	- 60	1
- Do	Dec. 27-Mar. 27	116	29	1
Oporto	Dec. 27-Mar. 27 Nov. 22-Dec. 19 Dec. 27-Mar. 6	.! 2	3	
Do	Dec. 27-Mar. 6	. 3	1 , 1	
Rumania Russia	August-October	. 3		May-June, 1925: Cases, 2,333.
Do	July-October	1, 563		
		,555	1	July 12-Sept. 5, 1925: Cases, 21
Siam				
Bangkok	Dec. 20-25	3		deaths, 6.
Siam	Dec. 20-25 Dec. 26-Feb 20	64 64		

### Reports Received from December 26, 1925, to April 30, 1926-Continued

### SMALLPOX-Continued

	Date	Cases	Deaths	Remarks
Spain. Madrid	Year 1925		18	*
Do Malaga	Jan. 1-31		1 2	
Maiaga	Nov. 29-Dec. 5 Dec. 27-Jan. 2 Dec. 20-26		ī	
Do Valencia	Dec. 21-Jan. 2	i	١ ،	
Do	Dec. 27-Jan. 2	1		
	Jan. 10-Feb. 6	9		
Do	Feb 14-Apr. 3	8		
Straits Settlements:	_	°		
Penang	Mar. 28-Apr. 3		1	
Singapore	Mar. 28-Apr. 3 Dec. 20-26	1		
D0	Jan 10-16	2	1	•
Sumatra: Medan	Feb. 14-27	2		
Switzerland				June 28-Nov 21, 1925 Cases, 62;
Lucerne	Oct. 1-Nov 30	8		Dec. 27, 1925-Jan 30, 1926:
Do	. Jan. 1-31	5		Cases, 37.
Zurieh	Dec. 27-Jan. 2	1		,
Trinidad (West Indies): Port of Spain	Jan. 1-Mur. 20	8		
Tunisia:			1	•
Tunis	Nov. 21-30	2		
Do	Dec. 11-31. Jan. 1-Feb. 20	10	1	
Do	.] Jan. 1-Feb. 20	6		
Union of South Africa:	1 7 17.00		1	Outline he
Cape Province	Jan. 17-23			Outbreaks.
Orange Free State— Kuruman district	Ton 10 16	1	1	Do.
Ladybrand district	Jan. 10-16 Dec 27-Jan. 2			Do.
Transvaal—	. Dec 21-Jan. 2			170.
Belfast district	do	1	1	Do.
Germiston district	Jan 2-9			Do.
Preto ia district	Dec. 6-12			Outbreaks. In native compound.
On vessel	Feb. 21	2		Mayican steamer Monterums at
0 11 VV 050411111111111111111111111111111111111	1 2001 2222222	_		Mexican steamer Montezuma, at Port of Ensenada, Mexico.
Manhaman process and a second property of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of the second process of th	TYPHUS	, , , , , , , , , , , , , , , , , , , ,		
Algeria:				•
Algiers	Nov. 1-Dec. 20 Jan. 1-Mar. 20	2		
Do	Jan. 1-Mar. 20	10		
Argentina:	1	1	1	
Rosario	Oct. 13-Dec. 31	2		,
Bulgaria	Sept. 1-Dec. 31 Dec. 25-31	50		
Sofia	.l Dec. 25-31		3	
		Ī	3	
Do	Jan. 8-14	2		
Do	Jan. 8-14	. 2		
Canary Islands: Santa Cruz de Teneriffe	Jan. 8-14	1		Day, 15 21 1025 Coppe 40
Do Canary Islands: Santa Cruz de Teneriffe Chile.	Jan. 8-14	1		Dec. 15-31, 1925. Cases, 46.
Do	Mar. 8-14	1	3	Dec. 15-31, 1925. Cases, 46.
Do	Mar. 8-14	1		Dec. 15-31, 1925. Cases, 40.
Do	Mar. 8-14	1		Dec. 15-31, 1925. Cases, 46.
Do	Mar. 8-14	1		Dec. 15-31, 1925. Cases, 46.
Do. Cannry Islands: Santa Cruz de Teneriffe Achao. Bulnes. Chillan Concepcion	Jan. 8-14 Mar. 8-14 Dec. 15-31 do do	1 1 1 24 6 1		Dec. 15-31, 1925. Cases, 46.
Do. Cannry Islands: Santa Cruz de Teneriffe Achao. Bulnes. Chillan Concepcion	Jan. 8-14 Mar. 8-14 Dec. 15-31 do do	1 1 1 24 6 1 5		Dec. 15-31, 1925. Cases, 46.
Do. Cannry Islands: Santa Cruz de Teneriffe Achao. Bulnes. Chillan Concepcion	Jan. 8-14 Mar. 8-14 Dec. 15-31 do do	1 1 1 24 6 1 5		Dec. 15-31, 1925. Cases, 40.
Do. Cannry Islands: Santa Cruz de Teneriffe Achao. Bulnes. Chillan Concepcion Linares. Los Angeles. Penco San Carlos.	Jan. 8-14 Mar. 8-14 Dec. 15-31 do do do do do do do do	1 1 1 24 6 1 5 2		Dec. 15-31, 1925. Cases, 46.
Do. Canary Islands: Santa Cruz de Teneriffe Aehao. Bulnes. Chillan Concepcion Linares. Los Angeles. Penco San Carlos. Talea	Jan. 8-14  Mar. 8-14  Dec. 15-31  do  do  do  do  do  do  do  do  do  d	1 1 1 24 6 1 5 2		Dec. 15-31, 1925. Cases, 40.
Do. Cannry Islands: Santa Cruz de Teneriffe Achao. Bulnes. Chillan Concepcion Linares. Los Angeles. Penco San Carlos Talea Valuaraso	Jan. 8-14  Mar. 8-14  Dec. 15-31  do  do  do  do  do  do  do  do  do  d	1 1 1 24 6 1 5 2	2	Dec. 15-31, 1925. Cases, 40.
Do. Cannry Islands: Santa Cruz de Teneriffe Achao. Bulnes. Chillen. Concepcion Linares Los Angeles. Penco San Carlos Talca Valparaiso. Do.	Jan. 8-14  Mar. 8-14  Dec. 15-31  do  do  do  do  do  do  do  do  do  d	1 1 1 24 6 1 5 2		Dec. 15-31, 1925. Cases, 40.
Do. Cannry Islands: Santa Cruz de Teneriffe. Chile Achao Bulnes Chillian Concepcion Limares Los Angeles Penco San Carlos Talca Valparaiso Do. China:	Jan. 8-14  Mar. 8-14  Dec. 15-31  do  do  do  do  do  do  Nov. 29-Jan. 2  Dec. 15-31	1 1 24 6 1 5 2 1 1 1	2	Dec. 15-31, 1925. Cases, 40.
Do. Cannry Islands: Santa Cruz de Teneriffe Achao. Bulnes. Chillen. Concepcion Linares Los Angeles. Penco San Carlos Talca Valparaiso. Do.	Jan. 8-14  Mar. 8-14  Dec. 15-31  do  do  do  do  do  do  Nov. 29-Jan. 2  Nov. 29-Dec. 27  Jan. 4-Mar. 7	1 1 24 6 1 5 2 1 1 1 1		Dec. 15-31, 1925. Cases, 46.
Do. Cannry Islands: Santa Cruz de Teneriffe Achao. Bulnes. Chillan Concepcion Linares. Los Angeles. Penco San Carlos Talea Valparaiso. Do. Chine: Antung Do. Hongkong	Jan. 8-14  Mar. 8-14  Dec. 15-31  do  do  do  do  do  do  Nov. 29-Jan. 2  Dec. 15-31	1 1 24 6 1 5 2 1 1 1	2	Dec. 15-31, 1925. Cases, 40.
Do. Cannry Islands: Santa Cruz de Teneriffe. Chile	Jan. 8-14  Mar. 8-14  Dec. 15-31  do  do  do  do  do  Nov. 29-Jan. 2  Jan. 4-Mar. 7  Dec. 27-Jan. 2	1 1 1 24 6 1 5 2 2 1 1 1 1 1 4 5 7	2	Dec. 15-31, 1925. Cases, 46.
Do. Cannry Islands: Santa Cruz de Teneriffe Achao. Bulnes. Chillan Concepcion Linares. Los Angeles. Penco San Carlos Talea Valparaiso. Do. Chine: Antung Do. Hongkong	Jan. 8-14  Mar. 8-14  Dec. 15-31  do  do  do  do  do  do  Dec. 15-31  Nov. 29-Jan. 2  Dec. 15-31  Nov. 29-Dec. 27  Jan. 4-Mar. 7  Dec. 27-Jan. 2  Dec. 17-Feb. 4	1 1 24 6 1 5 2 1 1 1 4 5 7 7	2	Dec. 15-31, 1925. Cases, 46.
Do. Cannry Islands: Santa Cruz de Teneriffe Chile Achao. Bulnes. Chillan Concepcion Linares. Los Angeles Penco San Carlos Talea Valparaiso Do. China: Antung Do. Hongkong Manchuria— Harbin	Jan. 8-14  Mar. 8-14  Dec. 15-31  do  do  do  do  do  do  Dec. 15-31  Nov. 29-Jan. 2  Dec. 15-31  Nov. 29-Dec. 27  Jan. 4-Mar. 7  Dec. 27-Jan. 2  Dec. 17-Feb. 4	1 1 24 6 1 5 2 1 1 1 4 5 7 7	2	Dec. 15-31, 1925. Cases, 40.
Do. Cannry Islands: Santa Cruz de Teneriffe. Chile. Achao. Bulnes. Chillan Concepcion Linares. Los Angeles Penco San Carlos Talea Valparaiso Do. China: Antung. Hongkong. Manchuria— Harbin Czechoslovakia Egyot.	Jan. 8-14  Mar. 8-14  Dec. 15-31  do  do  do  do  do  do  Dec. 15-31  Nov. 29-Jan. 2  Dec. 15-31  Nov. 29-Dec. 27  Jan. 4-Mar. 7  Dec. 27-Jan. 2  Dec. 17-Feb. 4	1 1 24 6 1 5 2 1 1 1 4 5 7 7	2	Dec. 15-31, 1925. Cases, 40.
Do. Cannry Islands: Santa Cruz de Teneriffe. Chile. Achao. Bulnes. Chillan Concepcion Linares. Los Angeles Penco San Carlos Talea Valparaiso Do. China: Antung. Hongkong. Manchuria— Harbin Czechoslovakia Egyot.	Jan. 8-14  Mar. 8-14  Dec. 15-31  do  do  do  do  do  do  Nov. 29-Jan. 2  Dec. 15-31  Nov. 29-Jan. 2  Dec. 27-Jan. 2  Dec. 17-Feb. 4  October-December	1 1 24 6 1 5 2 1 1 1 4 5 7 7	2	Dec. 15-31, 1925. Cases, 46.
Do. Cannry Islands: Santa Cruz de Teneriffe. Chile Achao. Bulnes. Chillan Concepcion Linares. Los Angeles. Penco San Carlos. Taica Valparaiso Do. China: Antung. Hongkong. Manchuria— Harbin Czechosłovakia Egypt. Linares	Jan. 8-14  Mar. 8-14  Dec. 15-31  do  do  do  do  do  do  Nov. 29-Jan. 2  Dec. 15-31  Nov. 29-Jan. 2  Dec. 27-Jan. 4  October-December  Jan. 8-Feb. 25  Nov. 5-Dec. 16	1 1 1 24 6 6 1 5 5 2 1 1 1 4 4 5 7 7 1	2	Dec. 15-31, 1925. Cases, 46.
Do. Cannry Islands: Santa Cruz de Teneriffe Achao. Bulnes. Chille. Concepcion Linares. Los Angeles. Penco San Carlos Talea Valparaiso Do. Chine: Antung Do. Hongkong Manchuria Harbin Czechoslovakia Egypt. Alexandria Caro Pert Said	Jan. 8-14  Mar. 8-14  Dec. 15-31  do  do  do  do  do  do  Nov. 29-Jan. 2  Dec. 15-31  Nov. 29-Jan. 2  Dec. 27-Jan. 2  Dec. 17-Feb. 4  October-December  Jan. 8-Feb. 25  Nov. 5-Dec. 16	1 1 1 24 6 1 5 2 2 1 1 1 4 5 7 7 1	2	Dec. 15-31, 1925. Cases, 46.
Do. Cannry Islands: Santa Cruz de Teneriffe Achao. Bulnes. Chile Achao. Bulnes. Chillan Concepcion Linares. Los Angeles. Penco San Carlos. Talea Valparaiso. Do. China: Antung. Do. Hongkong. Manchuria- Harbin Czechoslovakia Egypt. Akandria	Jan. 8-14  Mar. 8-14  Dec. 15-31  do  do  do  do  do  do  Dec. 15-31  Nov. 29-Jan. 2  Dec. 15-31  Nov. 29-Dec. 27  Jan. 4-Mar. 7  Dec. 27-Jan. 2  Dec. 17-Feb. 4  October-December  Jan. 8-Feb. 25	1 1 1 24 6 6 1 5 5 2 1 1 1 4 4 5 7 7 1	2	Dec. 15-31, 1925. Cases, 46.

### Reports Received from December 26, 1925, to April 30, 1926-Continued

### TYPHUS FEVER-Continued

Place	Date	Cases	Deaths	Remarks
Finland				October, 1925 I case.
France	July-October	4		,
Greece				December, 1925: Cases, 12.
Athens	Nov. 1-30	11	2	
Do	Jan. 1-Mar. 31	45	9	
Saloniki	Dec. 29-Jan. 4	1		
_ Do	Jan. 1–Mar. 31 Dec. 29–Jan. 4 Feb. 2–8	1		
Hungary				November-December, 1925
Ireland:				Cases, 16.
Cork County—	Dec 00 Tem 1	2	1 1	k
Cork	Dec. 26-Jan. 1	5		
Do Dumanway	Jan. 2-8 Nov. 14	ĭ	1	
Galway County	Oct. 17	î		
Galway County Kerry County—	000. 11	•		
Listowel	Mar. 7-13	1	1	Rural district.
Wexford County— Gorey	do	1		Do.
Latvia	October-December			20.
Lithuania	October December			September-October, 1925: Cases,
				9: deaths, 1.
Mexico				9; deaths, 1. July-September, 1925: Deaths,
Aguascalientes	Dec. 14-19	1		90.
Durango	Dec. 14-19 Dec. 1-31		1	
Do	Jan. 1-31		1 1	
Guadalajara	Dec. 8-28		2	
Do	Dec. 29-Jan. 4		1	
Mexico City	Nov. 22-Dec. 26	50		Including municipalities in Federal District.
Do	Dec. 27-Mar. 20 Feb. 6-13 Dec. 21-Jan. 10	89		Do.
Do San Luis Potosi	Feb. 6-13		1	
Tampico	Dec. 21-Jan. 10	1	1	
Torreon	November, 1925		1	
Vera Cruz	Feb. 12		1 1	
Morocco.	August-December.	93		
Norway				November-December, 1925:
•	•	1		Cases, 2.
Palestine:		ĺ	!	
Gaza	Dec. 18	1		
Haifa	Mar. 16-22	1		
Jaffa	Dec. 1-7 Feb. 23-Mar. 1 Nov. 3-9	1		
Do	Feb. 23-Mar. 1	1		
Nazareth Ramleh	Nov. 3-9	1		
Ramien	Mar. 16-22	1		
Safad	Nov. 24-30	1		
Tel-Aviv	Mar. 9-15	1		
Do	Mar. 9-15	1 2		
Tiberias	do	-		
Peru:	October-December		3	
Arequipa	Oct. 11-Jan. 2	462	44	-
Poland Do	Jan. 3-16	190	14	
Rumania	Jan. 0-10.	100		July-October, 1925: Cases, 181;
Constantza	Feb. 1-Mar. 10	2	1	deaths, 22.
Russia	1			May-June, 1925: Cases, 10,680.
Do		1		May-June, 1925: Cases, 10,680. July-October, 1925: Cases, 6,035.
Turkey:		1		
Constantinople	Jan. 24-30	. 3		
Do	Feb. 9-22	. 5	. 3	From unofficial sources (press).
Union of South Africa				October, 1925: Cases, 88; deaths,
				From unofficial sources (press). October, 1925: Cases, 88; deaths, 7 (colored). Cases, European, 7. December, 1925: Cases, 78; deaths, 9. Colored: Cases, 78; deaths, 9. January, 1926: Cases, 94; deaths, 18. European, cases, 74.
				Cases, 94; deaths, 18. European cases, 5.
Cape Province	Oct. 1-31	63	5	Colored.
Do	Nov. 8-Dec. 31	47	8	
Do	Jan. 1-Feb. 27	74		Do.
Grahamstown	Ian 24-30	2		
Middleburg district	Dec. 6-12	ī		European. On farm.
Natal	Oct. 1-Dec. 5	î		
Do	Jan. 1-31	. 9		Colored.
Durban	Jan. 3-Mar. 6	. 4		1
		-		•

## TREASURY DEPARTMENT

# PUBLIC HEALTH REPORTS

ISSUED WEEKLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

Volume 41 :: :: Number 20

MAY 14 - - - 1926

### SPECIAL ARTICLES

The Leprosy Problem in the United States Reports of the Health Section of the League of Nations



WASHINGTON GOVERNMENT PRINTING OFFICE 1926

### UNITED STATES PUBLIC HEALTH SERVICE

### HUGH S. CUMMING, Surgeon General

#### DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg. Gen. B. J. LLOYD, Chief of Division

The Public Health Reports are issued weekly by the United States Public Health Service through its Division of Sanitary Reports and Statistics, pursuant to acts of Congress approved February 15, 1893, and August 14, 1912.

They contain: (1) Current information of the prevalence and geographic distribution of preventable diseases in the United States in so far as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other communicable diseases throughout the world. (2) Articles relating to the cause, prevention, or control of disease. (3) Other pertinent information regarding sanitation and the conservation of the public health.

The Public Health Reports are intended primarily for distribution to health officers, members of boards or departments of health, and those directly or indirectly engaged in or connected with public health or sanitary work. Articles of general or special interest are issued as reprints from the Public Health Reports or as supplements, and in these forms are available for general distribution to those desiring them.

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# PUBLIC HEALTH REPORTS

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#### THE LEPROSY PROBLEM IN THE UNITED STATES

By O. E. Denney, Surgeon (R), United States Public Health Service, Medical Officer in Charge U. S. Marine Hospital No. 66 (National Leprosarium, Carville, La.)

That leprosy now exists in the United States and has existed here for a great many years is a truism which seldom occurs to the average person until newspaper headlines attract attention to some unfortunate person who is afflicted with the disease. Then, after a few days' hysterical attention to the subject, the question again drops into temporary oblivion.

In some of our States leprosy has long been a problem of importance, because of its presence in neighborhoods populated by descendants of certain of the earlier settlers, and of the fact that its propagation there is due to factors not well understood. For lack of better explanations, racial or family predisposition, local habits and customs and the like, are ascribed as causes. In other States, particularly those with large seaports, cases of leprosy develop among immigrants who have been admitted with the disease in an early and undiagnosable form, and the disease has spread, slowly, to be sure, among the native population. A third source of infection is that found in our military and maritime population, in the soldier or seaman who has lived in an infected territory for a number of years, has contracted the disease, and later returned to his native country.

Geographically, we consider the Gulf Coast States as the most important foci of leprosy; for it is here that we recognize indisputable evidence of the continued propagation of leprosy, and here the disease has existed for generations, having been sustained by contact with tropical America through commercial sources, through slave traffic, and, in addition, in the case of certain parts of Louisiana, probably augmented through the settling of the country by the Acadians.

A conservative estimate of the prevalence of leprosy in continental United States places the number at approximately 1,200. A reliable estimate of the number of lepers who have resided in the United States is well nigh impossible, and for many reasons. It is probable that many times leprosy has been confused with other diseases with which it has symptoms in common; furthermore, leprosy has not been consistently reported to health officials, and the public records must, of necessity, represent but a surface scratching. Then, too, in many instances physicians have hesitated to make a report of known cases of leprosy because of the unwarranted hysteria that

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would have been provoked by the report of the presence of a case of leprosy in a neighborhood where no suitable facilities existed for isolation and treatment, and where the leper had been permitted and encouraged to move on. Sometimes this method of dealing with lepers has been most humiliating to the leper and disgraceful to the community.

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It was evident more than 30 years ago that some concerted action was necessary if the progress of leprosy in the United States was to be checked, and plans were formulated for having the Federal Government assume control of the situation. Constructive effort, however, did not crystallize until February 3, 1917, when Congress enacted legislation and provided funds for the establishment of a National Home for Lepers. The entrance of the United States into the World War prevented active measures toward this project, although a committee was appointed to select a site for the proposed Leper Home. This committee met with great opposition in obtaining a site, because no State cared to cede territory to the Government for use as a leper settlement, and final solution of the matter was arrived at by purchasing from the State of Louisiana the estate occupied by the Louisiana Leper Home.

It is interesting to note that, even in the State of Louisiana, where leprosy has been endemic for many generations, the greatest difficulty was encountered by that State in establishing its own leper colony. In 1894, responding to a series of popular outbursts, manifested in the daily press and through the medical bodies of the State, the State legislature, then in session, passed an act creating a board of control, whose office was to provide a home for lepers and its subsequent care. In August, 1894, this board was appointed, and in September was organized after due promulgation of the act. At every hand obstacles were thrown in the way of the board's efforts to fulfill the duty imposed upon them.

When a desirable site was found and almost secured, misguided judgment refused to sanction the erection of the asylum for these unfortunate victims of leprosy, even though for years they had been allowed to travel on the street cars, eat at public restaurants, beg on the public thoroughfares, and otherwise expose an unguarded public.

A site was finally secured by lease for five years in Iberville Parish. This was the old "Indian Camp" plantation, desirable in every way for the home of the charges of the board, except with regard to accessibility.

On November 30, 1894, the first contingent of lepers was transported from New Orleans, by night, to their present home. This was accomplished with the greatest difficulty, on a coal barge, towed by a tug. The appalling details of the trip were depicted in the daily press.

925 May 14, 1926

For a time the existence of the home was threatened by the inhabitants of the Parish. A rational judgment, however, supplanted an early and misguided prejudice, and the poor sufferers were only the more pitied because they desired for themselves the isolation which the law compelled.

In 1900 the legislature of the State of Louisiana appropriated a sum of money to purchase a more convenient and suitable site for the State Leper Home, and the property under consideration was surveyed and plans were made for the building of a leprosarium. Local protests against the moving of the Leper Home to a site near New Orleans soon reached such a height of prejudice that, shortly before the actual occupation of the proposed new site, all existing buildings on the plantation were burned to the ground.

The committee appointed by the Surgeon General to select a site for the National Leprosarium (in accordance with the Act of February 3, 1917), by elimination of available locations, recommended that the Federal Government purchase the Louisiana Leper Home at Carville. The sale was consummated January 3, 1921, and, for the first time since the foundation of the Government, specific provision was made for lepers who might be found among its employees, especially those returning from service overseas. At the time when the United States Public Health Service assumed control of the Leper Home, facilities existed for approximately 80 beds and the Home was filled to capacity. Almost immediately steps were taken to enlarge the home and to rehabilitate existing buildings, and the number of patients was quickly increased to 172.

By act of Congress, March 4, 1923, appropriating the sum of \$645,000 further progress was made in the building program, so that housing facilities for approximately 425 patients became available in 1924, and steps were at once taken to hospitalize known lepers at large.

The act of February 3, 1917, authorizing and directing the Surgeon General of the Public Health Service to establish a leper home, designated that patients should be received under rules and regulations prepared by the Surgeon General with the approval of the Secretary of the Treasury, and that there should be received into the said home—

1. Any person afflicted with leprosy who presents himself or herself for care, detention, and treatment, or

2. Who may be apprehended under authority of the United States

Quarantine acts, or

3. Any person afflicted with leprosy duly consigned to said home by the proper health authorities of any State, Territory, or the District of Columbia.

Therefore, upon request of these authorities, the Surgeon General of the Public Health Service is authorized to send for any person-

afflicted with leprosy within the respective jurisdictions of the proper health authorities and to convey him to the leprosarium for detention and treatment.¹

To contract leprosy is not a crime. It is, in most cases, unavoidable. Once a leper is in detention, however, it is a crime against society for him to abscond and subject his fellow human beings to the risk of contracting a malady that is practically incurable. To restrain such an individual is for the public good. This the law does with justice.

With few exceptions, the lepers at Carville are contented with their lot. In comfortable quarters located on a beautiful 358-acre tract of land, with good food, excellent medical and surgical attention and nursing, and a diversity of amusements, these unfortunates, the wards of the Government, are living out their lives without worry and in full realization of the fact that they are no longer a menance to the health and contentment of their fellow beings.

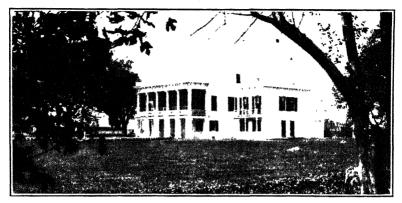
Leprosy was the first disease concerning which specific regulations were made in the United States regarding the transportation of infected persons. The Interstate Quarantine Regulations have provided rules for the safe transport of lepers since 1912. The revised regulations prescribe the following procedure:

- Sec. 5. Travel of lepers.—Common carriers shall not accept for transportation or transport in interstate traffic any person known by them to be afflicted with leprosy, nor shall any person so afflicted accept such transportation except as hereinafter provided.
- (a) A person afflicted with leprosy shall be permitted to accept transportation upon presentation of permits from the Surgeon General of the United States Public Health Service, or his accredited representative, and from the health authorities of the States, Territories, or District of Columbia to and from which he intends to travel, stating that such person may be received under such restrictions, which shall be specified in each instance, as will prevent the spread of the disease, provided such person shall have agreed in writing to comply, and does so comply, with the restrictions as specified.
  - (b) Any person who presents symptoms of leprosy and who is traveling or who has left the State where he resides in violation of the above regulations shall be detained, and, if proved to be a leper, shall be returned to such State or removed to such Federal station as the Secretary of the Treasury may designate, and the proper health authorities notified.

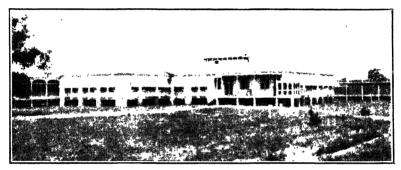
The Standard Railway Sanitary Code has practically the same restrictions relative to the transportation of lepers, as follows:

Sec. 8. Leprosy.—Common carriers shall not accept for transportation nor transport in any railway train, or other conveyance any person known to them to be afflicted with leprosy, unless such person presents permits from the Surgeon General of the United States Public Health Service or his accredited representative, and from the State department of health of the States from which and to which he is traveling, stating that such person may be received under such

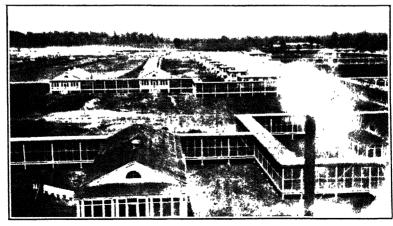
^{*}The regulations governing the administration of the leprosarium were duly written, promulgated, and published in Public Health Reports for December 22, 1922.



Administration building, formerly the plantation nouse



Patients' kitchen and mess hall



Some of the patients' cottages and site of proposed infirmary building



View of some of the patients' cottages; dining room in the foreground



Baseball on the patients' recreation field



Chinese New Year's masquerade party



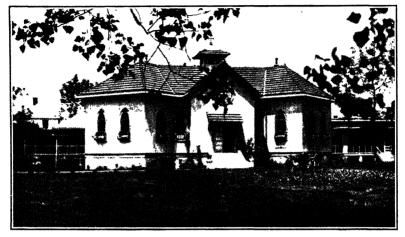
Patients' cottages. Part of campus, with oak and pecan trees



Clarification system for treating the Mississippi River water, and some of the warehouses and laundry buildings



The modern dairy barn



Catholic chapel



Protestant chapel

restrictions as will prevent the spread of the disease, and said restrictions shall be specified in each instance; and no person knowing or suspecting himself to be afflicted with leprosy, nor any person acting for him, shall apply for, procure, or accept transportation from any common carrier unless such permits have been received and are presented, and unless the person so afflicted agrees to comply and does so comply with the restrictions ordered.

After the necessary State permits are received, patients are transferred to the leprosarium accompanied by a medical officer of the Public Health Service. A compartment is provided for the patient, who is strictly isolated during the trip. All dishes and utensils are disinfected before leaving the compartment, all secretions or discharges are disinfected and properly disposed of, and the space occupied is disinfected upon being evacuated by the patient.

Isolation of lepers while being transported may be carried out with entire safety. Objection is often made by the railway officials to assigning space for this purpose. However, under the interstate quarantine regulations issued by the Secretary of the Treasury, a common carrier can not refuse space, if such be available. As now practiced by the Public Health Service, the transportation of lepers is effected without exposing the public to any danger of infection.

Since occupation of the home by the Public Health Service, the entire premises, portions of which were formerly heavily wooded swamp lands, have been reclaimed and placed under cultivation or used for pasturage. Extensive drainage has been completed, rendering the soil more valuable for farming purposes and effectually diminishing the mosquito nuisance which has been a menace in the past. Permanent gravel-surfaced roads have been built throughout the premises, rendering all parts accessible. A herd of dairy and beef cattle, selected stock from the United States Marine Hospital at Fort Stanton, N. Mex., has been transferred to the leprosarium and a modern dairy has been constructed, so that abundant dairy products are available. The live oaks, which are among the most beautiful in the State of Louisiana, are given the careful tree surgery to which they are entitled, and many similar shade trees have been planted for the permanent beautification of the grounds.

The property faces on the Mississippi River, facilitating the handling of freight by steamboats. The railroad station is located approximately 6 miles distant, the intervening country, being sparsely settled, furnishing some degree of isolation. The climate is subtropical, so that out-of-door life for the patients is possible during the entire year.

A typical cottage for patients consists of 12 private rooms, a recreation room, adequate bathing and toilet facilities, and two large screened verandas. The cottages are furnished with steam heat, hot and cold water, electric lights, and are well ventilated. The

purpose of such a cottage is to give each patient a room and surroundings which might be considered as his home. In order that the patients may conveniently pass from one building to another, each structure within the colony limits is connected with its neighbor by a screened, covered walk.

The present hospital proper consists of four wards set aside for male and female patients who may be suffering from advanced leprosy or from intercurrent diseases. Modern facilities are available for the care of such cases and include the following: A well-equipped surgery; dental laboratory; X-ray department; eye, ear, nose, and throat department; physiotherapy department; and a clinic set aside for experimental treatments. A well-equipped laboratory is maintained for routine clinical examinations, as well as for research purposes.

The kitchen is centrally located and so arranged that the food may be prepared by nonleprous personnel and then passed into the main dining room where the service is operated upon the cafeteria system. Dishes and all utensils which are used in the dining room are washed and sterilized in mechanical dish-washing machines, thereby reducing to a minimum the possibility of secondary or cross infection.

At stated intervals, physical and bacterioscopic examinations are made and patients showing clinical improvement are segregated, so far as possible, from their fellows. After repeated examinations, any leper who has shown clinical improvement for a year and has not within that time been found to be bacterioscopically a leper is placed under special observation for a period of two years, at the end of which time he is given final consideration. Should he successfully pass this final examination, he is recommended for parole and released subject to further examinations by his State health authorities once each six months for a period of three years. Should his condition continue to be satisfactory, he is given his final discharge as a case of arrested leprosy, no longer a menace to the public health.

The consensus of opinion among leprologists, as expressed in the resolutions of numerous conferences and in monographs on the subject, is that leprosy is a dangerous, communicable disease and that, in the light of our present knowledge, segregation of all lepers is essential to the complete eradication of the disease. The drastic action necessary to accomplish this problem of vital importance is not only handicapped in most countries of the world by the lack of adequate legislation for the complete isolation of lepers and the great difficulties to be overcome in breaking strong social ties and the customs of the lepers as individuals or classes, but by the prospective expenditure of tremendous sums of money with which to maintain the segregation.

o War

It is recognized that each country is confronted with the solution of a leper problem, and that methods which appear to be applicable in one community are not practicable in another. Rigid segregation of all lepers in the United States is an ideal, the achievement of which, however, will call for some sacrifice.

#### REFERENCES

Bi-Annual Report of the Board of Control for the Leper Home of the State of Louisiana to the Governor and General Assembly, 1902.

What the United States Public Health Service is Doing to Prevent the Spread of Leprosy in Continental United States. By Edward R. Marshall, A. B., M. D. The Military Surgeon, October, 1923.

### CURRENT WORLD PREVALENCE OF DISEASE

REVIEW OF THE MONTHLY EPIDEMIOLOGICAL REPORT ISSUED MARCH 15, 1926, BY THE HEALTH SECTION OF THE LEAGUE OF NATIONS' SECRETARIAT:

No serious influenza outbreaks occurred in Europe during the past winter, at least none to the end of February, according to the data made available by the Epidemiological Report issued March 15 by the health section of the League of Nations' Secretariat. The general mortality, which is a very sensitive index of any unusual prevalence of the more serious respiratory diseases, showed only a slight winter increase in most European cities, and in the cities of the British Isles it was unusually low. Recent mortality in some of the larger cities is given below:

Mortality from all causes in certain European cities, by weeks, January 3-February 27, 1926

	Ann	ıal rate 1	per 1,000	in the w	eek ende	d		
City		Janu	ary			Febr	uary	
ľ	9	16	23	30	6	13	20	27
105 English cities	14. 5 14. 0 19. 9 16. 6 11 6 18. 1 11. 3 12. 1	13.6 13.7 17.4 18.7 10.7 13.5 10.3 10.6 14.1	15. 2 15. 9 17. 2 15. 4 12. 4 13. 0 11. 6 11. 9 13. 6	14. 2 14 5 15. 7 15. 2 14. 2 13. 5 11. 9 11. 7 13. 9	13.6 12.1 16.4 17.5 14.7 11.3 11.8 11.6 17.1	12.7 12.2 15.7 13.1 12.9 11.4 11.8 12.0 14.4	14. 2 13. 8 15. 7 15. 4 14. 5 14. 4	13. 2 12. 8 18. 2 16. 5
Paris 1	14.	9 15.	1 16. (	3	15.	9 16.	1	

¹ Rates by 10-day periods.

The recent rise in mortality in United States cities reached its peak in the week ended March 27, when the rate for 68 large cities was 19.4. The following week the rate dropped to 17.7. Although prac-

¹ From the Statistical Office, U. S. Public Health Service.

tically all sections of the country have shown a marked increase in mortality, the southern cities, and particularly the southwestern, were affected first and the north Atlantic and New England cities were affected last. In most southern cities the maximum mortality was reported approximately one month earlier than in northern cities, such as Philadelphia, New York, and Boston.

Plague.—The Mediterranean area continued to be nearly free from human plague. Egypt reported only two cases of plague in the period from December 9 to March 13; one at Minia on March 4 and one at Alexandria on March 13. Unofficial sources reported two cases of plague in February at Heraclion, in Greece.

Plague deaths in India in the four weeks ended January 16 were 6,332, approximately 50 per cent higher than in the preceding four weeks, but were only slightly more than 50 per cent of the total in the corresponding four weeks a year ago. The Punjab and the United Provinces showed the principal increase, while the incidence of the disease diminished in the greater part of southern India. March and April are the months of maximum plague incidence in India, and present indications are that the plague situation will continue favorable during the first half of the current year.

In Madagascar, the number of plague cases declined from 400 in December to 334 in January and 277 in February, but the incidence in each of these months was somewhat higher than in the corresponding months of the preceding two years.

Guayaquil reported 34 cases of plague in January as compared with 21 in December and 10 in November.

Cholera.—"There are three principal centers of the disease" (cholera), says the report, "namely, the southern part of Madras Presidency, Bengal and neighboring districts in India, and the Menam Valley in Siam. In addition, a few Provinces in the Philippine Islands, chiefly those around the Bay of Manila, are infected. An epidemic also broke out in Cambodia, Indo-China, during February."

Deaths from cholera in the Provinces of India

Dealite J. One closes in the 1.0			
	1925	1924-25	
Province	Nov. 22- Dec. 19	Dec. 20- Jan. 16	Dec. 21- Jan, 17
Northwest frontier Kashmir	0	0	0
Punjab Delhi	0	. 0	0
United Provinces Bihar and Orissa Bengai Presidency	694 245 1, 666	27 222 1, 277	131 1,40a
Assam. Central Provinces	2256 0	95 0	209
Madras Presidency Hyderabad State Bembay Presidency	3,241	4,408	4,024 0 29
Burma Other Indian States	56 56	25 0	157
Total	6, 158	6, 054	5, 985

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In Siam, the number of cases of cholera declined from 1,043 in the two weeks ended December 5 to 764 in the following two weeks, and gradually reached the low figure of 225 in the two weeks ended February 13. According to the Epidemiological Report, "It is not unlikely that a fresh increase will occur in March and April, as May is the usual month of maximum cholera incidence in Siam."

The sudden cholera outbreak in French Indo-China resulted in 958 cases in February, of which 893 were in Cambodia, 60 in Annam, and 5 in Cochin-China.

Smallpox.—The incidence of smallpox in northern England declined during February and the first half of March; 411 cases were reported in the two weeks ended March 13 as compared with 727 in the two weeks ended January 30, the peak of the outbreak.

On the European Continent, very little smallpox has been reported in recent months, and the situation is more favorable than a year ago. In Switzerland there were only 11 cases during the four weeks ended February 27, compared with 70 and 333 cases, respectively, during the corresponding periods of the two preceding years. In Spain, only 51 deaths were reported in December, 1925, compared with 252 in December, 1924. "Only 38 cases were reported during December in the Ukraine, and 103 cases during November in the remainder of European Russia, which are probably the lowest returns on record," states the report. In France, the number of cases declined from 85 in November to 39 in February. Only occasional, sporadic cases were reported in the remainder of Europe.

The number of cases of smallpox declined during January and February in Egypt, Algeria, and Tunisia. The disease appears to be only slightly prevalent in the remainder of Africa at the present time.

In the United States, smallpox has been much less prevalent the past winter than a year ago. An outbreak of mild smallpox occurred in Florida in January. The majority of cases were reported in Miami, Tampa, and Jacksonville. A severe outbreak of virulent smallpox occurred in Los Angeles. There were 498 cases reported in January and February and 85 deaths, indicating a fatality of about 17 per cent. The number of new cases had declined in the second half of March, but the fatality rate was still high.

In India, where smallpox has been unusually epidemic for some months past, the incidence continued to increase during January, and more than twice as many cases were reported in that month as were reported in the corresponding month of any of the preceding five years. The outbreak is most severe in Orissa, where there were 8,091 cases and 1,564 deaths during the four weeks ended February 6.

⁴ Later reports show 507 cases of smallpox in Los Angeles in January and February, 1926.—Ed.

Deaths from smallpox in the Provinces of India

	1925	1926	1925
Province	Dec. 6-Jan. 2	Jan. 3-30	Jan. 4-31
Northwest frontier Punjab Delhi United Provinces Bihar and Orissa. Bengal Presidency Assam Central Provinces Madras Presidency Hyderabad State Bombay Presidency Burma. Other Indian States	119 719 0 73 1,152 414 101 82 138 34 170 39 27	111 904 0 296 2,039 621 91 190 218 0 330 99	7 150 0 59 493 587 2 133 517 2 312 114
Total	3, 068	4, 946	2, 420

Enteric fever.—The incidence of enteric fever in most European countries continued lower during January and February than during the same period of the preceding two years.

In Japan, a considerable increase in the cases of enteric fever took place at the beginning of the year, "due to epidemic outbreaks in the Provinces of Fukuoka and Kumamoto in the southern island of Kiusku and at Tokio." From January 1 to February 20, the cases for the whole of Japan numbered 8,182, as compared with 5,134 during the corresponding period of 1925.

Lethargic encephalitis.—In the few countries reporting on lethargic encephalitis, no change in the incidence of the disease was indicated during January and February. A somewhat lower incidence than in the previous year was reported by England and Wales, Denmark, Sweden, Italy, and the United States.

Scarlet fever.—"The incidence of scarlet fever diminished slowly during February in most European countries, the decline being greatest in southern Europe," states the report.

Diphtheria.—Diphtheria was less prevalent during the past winter than in the winter of 1924-25 in Scandinavia, Germany, the Netherlands, Belgium, and Italy, but somewhat more prevalent in Czechoslovakia, Hungary, Bulgaria, and the Kingdom of the Serbs, Croats, and Slovenes.

Measles.—Measles has been epidemic in a number of European countries during the past winter, and the February reports for many of the countries did not indicate whether or not the maximum incidence had been reached. In Denmark and Bulgaria, the maximum incidence seems to have occurred in January, while in Hungary the peak seems to have occurred in November.

Mortality in the city of Moscow.—A special note in the Epidemiological Report for March gives some interesting statistics on mortality in the city of Moscow in recent years. 933 . May 14, 1926

The death rate for the city indicates a marked improvement in health conditions during the last three years as compared with the immediately preceding years or with the pre-war years. The general death rate per 1,000 inhabitants was 27.0 in 1901–1910 and 22.7 in 1911, and during the typhus epidemics it rose to 45.1 in 1919 and 41.4 in 1920. Since 1920 it has declined, as shown in the following annual rates: 26.3 in 1921, 29.0 in 1922, 14.7 in 1923, 15.8 in 1924, and 14.7 for the first 10 months of 1925.

A comparison of the age distribution of the population of Moscow with that of Paris and London shows that Moscow has a comparatively larger proportion in the young adult ages and a much smaller proportion in the ages over 60. If these facts are taken into consideration and the total death rates of Moscow and Paris are standardized according to the age distribution of London, the resulting death rate for Moscow is 17.5 (instead of the crude rate of 14.7) and for Paris is 16.8 (instead of 14.8). On this basis the Moscow rate is slightly higher than the Paris rate and much higher than the 11.4 rate for London.

The mortality in specific age groups is compared with that of London and Paris. The most striking difference in the cities is the much higher death rate among the children under 5 years of age in Moscow than in either London or Paris. Moscow also reported a much lower death rate for the ages 60 and over than London or Paris.

Death rates per	1.000 inhabitants	hu age, in Moscow.	London, o	ind Paris

Age	Moscow, 1923	London, 1923	Paris, 1921	Ago	Moscow, 1923	London, 1923	Paris, 1921
0-4	84. 2 5. 8 3. 7 4. 8 6. 7	22. 0 2. 2 2. 0 2. 0 3. 1 4. 3	58.3 5.3 4.4 6.0 7.1	40-43 50-59 60 and over All uges	11. 6 18. 8 44. 4 14. 7	8.0 16.1 58.5 11.4	10. 4 19. 3 57. 2 14. 8

A marked improvement in the epidemic situation in Moscow is shown by the decline during 1923 and 1924 in the number of deaths from the more serious epidemic diseases such as typhus, relapsing fever, dysentery, and smallpox. Mortality from tuberculosis also declined and a reduction in the number of deaths due to violence other than suicide and homicide contributed no little to the lowering of the total number of deaths.

Deaths from certain causes in the city of Moscow, 1922-1924

Cause of death	1922	1923	1924
Typhus Rulapsing fever Enteric fever Cholera Dysentery Smallpox Scarlet fever Measles Tuberculosis Violence other than suicide and homicide	3, 283 2, 651 539 156 1, 621 170 769 3, 590 2, 374	102 37 161 0 247 24 696 430 2,849 748	27 2 211 0 352 5 1,508 1,061 2,831 717

### PUBLIC HEALTH ENGINEERING ABSTRACTS

Use of Malaria School Census Card. L. M. Fisher. *Public Health Bulletin* No. 156 (U. S. Public Health Service), pp. 72-84. (Abstracted by L. D. Fricks.)

Sixty-five thousand malaria school census cards were sent out by the State health department of South Carolina during 1922 and 1923. The cards were mailed to the school-teachers, who distributed them to the pupils. The pupils took the cards home and the information was supplied by the parents. The cards were then returned to the teacher and mailed to the State health department. Ten thousand and eighty-five cards were returned. Thirteen per cent of the rural population of the State was included in this census. Thirteen per cent of those included in the census of 1922 were reported as having malaria, and 6.15 per cent in the census of 1923. The chief advantages claimed for the malaria school census card are its cheapness, ease of employment, its ability to locate malaria foci and show the general distribution of malaria, and its value in stimulating interest in malaria and malaria control.

A Program of a County Organization for Anti-Malaria Work. W. G. Smillie. Public Health Bulletin No. 156, pp. 32-43. (Abstracted by L. D. Fricks.)

This program is based on the county health unit as it is constituted in the Southern States. The first step in carrying out the program is that of determining the distribution of malaria in the county by case reports collected through various channels and analyzed, and by malaria mosquito surveys. The collection of this information accurately will consume much time. When collected it should be spotted on the county map. Certain precautions which should be taken by the county health officer in carrying out control measures are outlined, such as the charging of drainage expenditures against the county health budget.

Spore-Bearing Gas-Formers in the Ohio River at Cincinnati. Henry Sohn. Fourth Annual Report of Ohio Conference on Water Purification, November, 1924, pp. 85-89. (Abstracted by R. E. Thompson.)

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Of 99 samples of Ohio River water examined for spore-bearing gas formers during period March-October, 1924, 21 were found to contain such organisms. Of these unpurified cultures, 18 were capable of growing aerobically and 16 grew anaerobically. Only 6 of the 21 positive mixed cultures survived plating and purifying processes and proved capable of fermenting lactose. All 6 were spore bearers and 4 of them grew aerobically. The remaining 15 positive cultures were apparently due to symbiotic growth of spore-bearing types. The rate of gas formation by the spore-bearing types encountered was too slow to cause serious interference with gas production by colon group organisms. During the same period 85 per cent of routine presumptive positive tests on Ohio River water were confirmed when subjected to usual confirmatory tests for *B. coli*.

The Bacterial Content of Ice Cream. A. E. Fay and N. E. Olson. Kansas Agriculture Experiment Station, Manhattan, Kansas. Journal of Dairy Science, Vol. 7, No. 4, July, 1924, pp. 330-356. (Abstracted by R. E. Tarbett.)

In the introduction the authors call attention to the enormous increase in the production of ice cream in the United States—80,000,000 gallons consumed in 1909 and 260,000,000 gallons in 1920, an increase of 225 per cent. Increased demand has brought about improved methods of manufacture as well as regulatory laws. A few attempts have been made to regulate the bacterial content of ice cream. Data, however, upon which a fair bacterial standard might be based are very limited.

A rather complete review of the literature covering bacteriological examinations of ice cream is given.

The experiment carried on by the authors was for the purpose of studying the factors affecting the bacterial content of ice cream and the possibilities of producing a cream with low count under commercial conditions, the ultimate object being the establishment of a bacterial standard. The experiments were carried on in a plant having an average output of 200 gallons of ice cream per day. The plant methods, preparation of mix, pasteurization, homogenization, aging, freezing, and bacteriological methods are described. Pasteurization of the mix was, for the most part, at 150° F. for 30 minutes. Some variations were made both as to temperature and time, the temperature variations being between 140° and 152°, and the time from 20 to 30 minutes.

In all, 28 runs were made; the first 8 followed the customs and practices of the plant and the remainder were under the direct supervision of the authors. The average results are as follows:

(The results are expressed in total bacteria per gram as determined by standard agar plate counts incubated 24 hours at 37.5° C.)

Mix before pasteurizing (calculated) (determined from the mix before the butter was added and from the butter), 17,261,926; after pasteurizing, 219,953; after homogenizing, 277,475; before aging, 191,782; before freezing, 192,362; after freezing, 236,688, and after hardening 48 hours, 186,320.

The average bacterial count of the finished product for the runs not supervised was 617,357 bacteria per gram as against 35,432 for the supervised runs.

Considerable space is devoted to analyses of the results obtained in each step of the process, together with the effect upon three types of bacteria producing acid and gas with lactose and liquifying gelatin.

Eleven conclusions are given, the most important one being that it is possible and practicable consistently to produce ice cream containing less than 100,000 bacteria per gram by pasteurizing at 150° F. for 30 minutes and by using utensils that have been thoroughly cleansed and steamed.

Memphis Surveys Its Milk Supply. Anon. Nation's Health, Vol. 8, No. 1, January, 1926, p. 55. (Abstracted by W. E. Hardenbergh.)

Results of an investigation carried on at Memphis, Tenn., showed that of the 364 families studied, 49.5 per cent obtained their supply directly from dairymen, 35.5 per cent from grocery stores, and the remainder from neighbors or unknown sources; 1.8 per cent used canned milk only, and 8 per cent used no milk at all. The per capita consumption for the entire city has increased from 0.51 pint in 1921 to 0.72 in 1924.

About 50 per cent of the Memphis supply is pasteurized. The average bacterial count of pasteurized milk decreased from 684,200 per c. c. in 1921 to 117,000 per c. c. in 1924. The bacteriological count of raw milk declined from 1,631,000 per c. c. in 1921 to 113,000 in 1924.

In an effort to increase the quality of milk, the department of health began, in 1923, to publish the milk scores of every distributor. The results of this action are not stated, but the average score increased from 70 to 81 for pasteurized and raw milk, respectively, in 1923, to 85 and 86 in 1924.

### DEATH RATES IN A GROUP OF INSURED PERSONS

### RATES FOR PRINCIPAL CAUSES OF DEATH FOR FEBRUARY, 1926

The accompanying table is taken from the Statistical Bulletin for March, 1926, published by the Metropolitan Life Insurance Co., and presents the mortality experience of the industrial insurance department of the company for February, 1926, as compared with

January and with February and year 1925. The rates are based on a strength of approximately 17,000,000 insured persons in the industrial populations of the United States and Canada.

The death rate in this group of persons for February, 1926, was 9.8 per 1,000, the same as that reported for January of this year and somewhat lower than that for February a year ago (10.3 per 1,000).

With the exception of measles, influenza, and fatalities due to automobile accidents, the February record is favorable. The measles mortality is running exceptionally high. The rise began in December, when there was an increase in the rate to 4.3 from 1.7 per 100,000 in November, and was exceptionally sharp in January and February-9.5 and 13 per 100,000, respectively.

While the death rate for influenza rose 37 per cent higher than the January rate, and was 11 per cent above that for February, 1925, there was no increase in pneumonia in February.

The number of automobile fatalities for both January and February of this year exceeds the number for the corresponding months of 1925.

Death rates (annual basis) for principal causes per 1,000 lives exposed, January and February, 1926, and February and year, 1925

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Industrial	department.	Metropolitan	Life Insurance Co	ı.l

	Rate per 100,000 lives exposed ¹					
, Cause of death	February, 1926	January, 1926	February, 1925	Year 1925		
Total, all causes	982, 7	981. 2	1,027.0	906. 9		
Typhoid fever.  Measles. Scarlet fever. Whoping cough. Diphtheria. Influenza. Tuberculosis (all forms). Tuberculosis of respiratory system. Cancer. Diabetes mellitus. Cerebral hemorrhage. Organic diseases of heart. Pneumonia (all forms). Other respiratory diseases. Diarrhea and enteritis. Bright's disease (chronic nephritis). Puerporal state. Smicides. Homicides. Other reternal causes (excluding suicides and homicides). Traumatism by automobiles. All other causes.	2.6 13.0 4.6 7.4 9.6 37.0 98.3 87.3 69.1 15.8 59.6 144.2 137.6 15.9 15.0 78.8 14.5 5.6 4.9	3.9 9.5 4.0 6.6 11.2 27.1 91.0 81.4 60.0 147.0 138.0 15.9 17.8 74.8 14.3 7.2 59.2	139. 7 18. 1 19. 4 84. 6 18. 7 7. 3 6. 1	4.6 3.3 3.7 70.6 21.9 99.0 85.8 70.1 126.6 86.6 69.8 69.8 69.8 69.8		

¹ All figures include infants insured under 1 year of age.
2 Based on provisional estimate of lives exposed to risk in 1925.

### HEALTH EXHIBITION IN THE NETHERLANDS EAST INDIES

Official announcement has been made of a health exhibition to be held at Bandoeng, Java, the Netherlands East Indies, during June and July, 1927.

The exhibits are classified in four divisions, as follows:

First division.—(1) Historical development of hygiene and (2) medical exhibits of institutes, laboratories, educational institutions, and libraries, and exhibits relating to health organizations, their aims, activities, and results accomplished.

Second division.—Grouping of diseases of world-wide prevalence and of tropical diseases, showing in the latter exhibit the physical effects of certain bacteria, fungi, and protozoa.

Third division.—Applied hygiene, including water supplies, sewage disposal and treatment, garbage removal, drainage, housing, lighting and ventilation, regulation of foods and drinks, prevention of epidemics, work of public health services, transportation, school hygiene, industrial hygiene, zoning and city planning, child welfare, veterinary hygiene as related to man, hospitals, and public health education.

Fourth division.—Exhibits, by commercial firms, of medical and sanitary supplies.

Foreign exhibits are sought for each group, including explanatory literature, photographs, drawings, models, statistics, samples, etc.

The public health service of the Netherlands East Indies Government will participate in the exhibition by means of a separate exhibit.

### DEATHS DURING WEEK ENDED MAY 1, 1926

Summary of information received by telegraph from industrial insurance companies for week ended May 1, 1926, and corresponding week of 1925. (From the Weekly Health Index, May 4, 1926, issued by the Bureau of the Census, Department of Commerce.)

•	Week ended May 1, 1926	Correspond- ing week 1925
Policies in force	63, 923, 127	59, 640, 913
Number of death claims	15, 346	12, 172
Death claims per 1,000 policies in force, annual rate.	12. 5	10. 6

Deaths from all causes in certain large cities of the United States during the week ended May 1, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, May 4, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week en	ded May 926	Annual death	Deaths y	under 1 ear	Infant mortality
City	Total deaths	Death rate 1	rate per 1,000 cor- respond- ing week 1925	Week ended May 1, 1926	Corre- sponding week, 1925	rate, week ended May 1, 1926 2
Total (69 cities)	7, 989	14.4	13. 7	945	855	3 76
Akron Albany ' Atlanta White Colored Buttimore ' White Colored Briningham White Colored Boston Bridgeport Buffalo Cambridge Camden Chicago ' Cuncinnata Cleveland Columbus Dallas White Colored Dayton Denver Des Moines Detroit Duluth El Paso Erie Fall River ' Filit Fort Worth White Colored Colored Dayton White Colored Dayton Denver Des Moines Detroit Duluth El Paso Erie Fall River ' Filit Fort Worth White Colored Grand Rapids Houston White Colored Indianapolis White Colored Jacksonville, Fila White Colored Jersey City- Kanssa City, Kans White Colored Lowell Lynn Lowell Lynn Memphis White Colored Lowell Lowell Lynn Memphis White Colored Lowell Lowell Lowell Lynn Memphis White Colored Lowell Lowell Lowell Lowell Lynn Memphis White Colored Lowell Lowell Lynn Memphis	33 32 73 39 34 252 194 286 571 28 36 27 77 28 31 160 27 77 28 31 44 32 35 34 44 43 35 36 37 47 48 38 48 48 48 48 48 48 48 48 48 48 48 48 48	(a) 14. 2 (b) 16. 5 (c) 18. 0 (c) 18. 0 (c) 18. 0 (c) 18. 0 (c) 18. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	10. 5 11. 8 12. 3 17. 4 14. 6 5. 2 12. 0 16. 4 14. 4 15. 9 11. 4 14. 8 12. 1 11. 6 19. 9 12. 6 18. 8	11 1 8 6 2 2 2 2 2 7 2 2 4 6 2 2 3 5 7 7 6 1 3 12 0 6 5 1 10 4 9 6 7 7 0 7 7 7 6 1 2 2 0 2 14 8 6 5 1 4 3 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24 0 6 34 18 18 18 14 14 12 32 5 5 7 7 1 10 10 10 10 6 6 6 6	117 21 21 85 73 114 110 63 113 33 34 88 59 71 64 110 110 110 110 110 110 110 110 110 11
Milwaukee Minneapolis Nashville ⁴ White	115 111	12.0 13.6 18.0	12.5 11.2 17.6	23 9 3	24 9 6	107 50
Colored	47 27 20 36 50	(5) 15.7 14.6	12.6 11.4	9 3 3 1 5 5	4 3	87 68

Footnotes at end of table.

Deaths from all causes in certain large cities of the United States during the week ended May 1, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, May 4, 1926, issued by the Bureau of the Census, Department of Commerce)—Continued

	Week en	ded May 26	Annual death	Deaths ye	Infant mortality	
City	Total deaths	Death rate	rate per 1,000 cor- respond- ing week 1925	Week ended May 1, 1926	Corresponding week, 1925	rate,week ended May 1, 1926
New Orleans White Colored New York Bronx Borough Brooklyn Borough Manhattan Borough Queens Borough Richmond Borcugh Newark, N. J Noriolk White Colored Oakland Oklahoma City Omaha Paterson Philadelphia Pittshurgh Portland, Oreg Providence Richmond White Colored Rochester St. Louis St. Paul Salt Lake City' San Antonio San Diego San Francisco Schnectady Sentile Somerville Sponkane Springfield, Mass Syracuse Tacoma Toleilo Trenton Utica	115 64 51 1.535 152 494 701 1422 46 88 83 177 151 255 47 7574 184 58 62 35 57 25 58 45 169 23 377 45 33 377 45 34 47 39 92 447 39 92	(2) 12.8 10.7 12.8 17.3 16.1 15.2 115.8 12.1 15.2 115.8 12.9 17.7 16.4 20.0 18.6 20.0 18.6 18.6 20.0 18.6 18.6 20.0 18.6 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 18.6 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20	17. 2 14. 0 10. 2 6 18. 7 9. 3 18. 1 11. 9 11. 1 12. 8 9. 9 13. 7 15. 7 15. 7 16. 0 11. 5 10. 8 18. 7 14. 1 9. 6 14. 6 14. 6 14. 6 14. 6 14. 6 19. 6	8 2 6 195 111 65 94 111 4 4 11 3 4 4 2 2 3 3 62 29 2 2 11 10 6 6 4 9 20 2 2 3 3 5 5 5 3 4 4 1 5 6 6 0 0 10 3 2	172 9 655 822 133 3 8 8 1 1 4 6 6 50 24 5 5 6 6 11 16 6 1 9 9 4 9 9 5 5 5 0 0 6 6 3 3 2 8 8 1 9	79 36 60 104 95 74 30 149 46 31 0 82 82 86 20 91 126 118 140 72 18 41 23 76 0 97 50 666
Washington, D. C. White Colored Waterbury Wilmington, Del Worcester Youkers Youngstown	137 82 55 31 36 73 17 40	14.3 (°) 15.4 20.0 7.8 13.0	14. 8 	3 17 10 7 6 5 10 3 4	13 3 2 5 0 11	97 83 128 120 117 115 67 51

Annual rate per 1,000 population.
 Deaths under I year per 1,000 births. Cities left blank are not in the registration area for births.
 Data for 64 cities.

^a Data for et cities.

^b Death for week ended Friday, Apr. 30, 1926.

^b In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta, 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.

## PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

### UNITED STATES

### CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the

State health officers

### Reports for Week Ended May 8, 1926

ALABAMA	_ 1	ARKANSAScontinued				
	Cases		Cases			
Cerebrospinal meningitis		Mumps	23			
Chicken pox		Pellagra				
Diphtheria		Scarlet fever				
Influenza		Smallpox.				
Malaria		Trachoma				
Measles	325	Tuberculosis	. 11			
Mumps	. 61	Typhoid fever	3			
Ophthalmia neonatorum	. 1	Whooping cough	52			
Pellagra		CALIFORNIA				
Pneumonia	. 68	CALIFORNIA				
Poliomyelitis	. 1	Cerebrospinal meningitis:				
Scarlet fever	. 18	Los Angeles	1			
Smallpox	. 35	San Benito County	. 1			
Tetanus	. 1	Chicken pox				
Tuberculosis	. 58	Diphtheria	. 104			
Typhoid fever	. 6	Influenzo				
Whooping cough	. 31	Measles	457			
ARIZONA		Mumps	. 270			
		Poliomyelitis-Alhambra	. 1			
Chicken por		Scarlet fever	. 117			
Diphtheria		Smallpox:				
Influenza		Los Angeles	. 17			
Leprosy.		Scattering	. 16			
Measles		Typhoid fever	. 15			
Mumps		Whooping cough				
Pneumonia.		,	•			
Scarlet fever		COLORADO	_			
Smallpox		Actinomycosis				
Trachoma		Chicken pox.				
Tuberculosis	_ 29	Diphtheria				
Whooping cough	_ 1	German measics				
ADV. 170.0		Influenza				
ARKINSAS		Measles,				
Chicken rox		Mumps				
Dengue		Ophthalmia neonatorum				
Diphtheria	_ 2	Pneumonia				
Hookworm disease	_ 1	Scarlet fever				
Influenza	-	Smallpox				
Malaria		Tuberculosis				
Measles	- 61	Whooping cough,	_ 79			

CONNECTICUT	Cases	ILLINOIS	
Cerebrospinal meningitis	Cases 1	Cerebrospinal meningitis:	Cases
Chicken pox		Cook County	1
Conjunctivitis (infectious)	-	La Salle County	. 1
Diphtheria		Rock Island County	1
German measles		Saline County	2
Influenza		Diphtheria	68
Lethargic encephalitis		Influenza	. 5
Malaria		Lethargic encephalitis—Cook County	. 1
Measles		Measles.	1, 167
Mumps	-	Pneumonia	374
Pneumonia (broncho)		Poliomyelitis:	
Pneumonia (lobar)		Lake County	
Scarlet fever		La Salle County	
Tuberculosis (pulmonary)		Scarlet fever	336
Typhoid fever		Smallpox:	
Whooping cough	55	Cook County	
		Saline County	
DELAWARE Chicken pox	. 3	Scattering	
Diphtheria	_	Tuberculosis	
Measles		Typhoid fever	
Pneumonia.		Whooping cough	193
Scarlet fever		INDIANA	
Whooping cough		Chicken pox	37
	_	Diphthena.	_
DISTRICT OF COLUMBIA		Influenza	
Chieken pox		Measles	
Diphthena		Mumps	1, 1.1
Measles		Pneumonia	
Pneumonia		Scarlet fever	
Scarlet fever		Smallpox	75
Smallpox		Tuberculosis	37
Tuberculosis		Whooping cough	
Typhoid fever			
Whooping cough		Kansas	
Whooping cough	33		
Whooping cough	33	KANSAS	1
Whooping cough	33 36 1	KANSAS Cerebrospinal meningitis:	1
Whooping cough  FLORIDA Chicken pov Dengue Diphtheria	33 36 1 17	KANSAS  Cerebrospinal meningitis:  Junction City	
Whooping cough  FLORIDA  Chicken pov.  Dengue  Diphtheria  German measles.	33 36 1 17 3	KANSAS  Cerebrospinal meningitis:  Junction City  Kansas City	1
Whooping cough  FLORIDA Chicken pov Dengue Diphtheria German measles Influenza	33 36 1 17 3 7	KANSAS  Cerebrospinal meningitis:  Junction City  Kansas City  Chicken pox	1 77
Whooping cough  FLORIDA Chicken pov  Dengue  Diphtheria  German measles  Influenza  Malaria	33 36 1 17 3 7	KANSAS  Cerebrospinal meningitis:     Junction City     Kansas City Chicker pox. Diphtheria	1 77 7
Whooping cough  Chicken pov.  Dengue  Diphtheria  German measles  Influenza  Malaria  Measles	33 36 1 17 3 7 6 99	KANSAS  Cerebrospinal meningitis:     Junction City	1 77 7 21
Whooping cough  Chicken pov.  Dengue  Diphtheria  German measles  Influenza  Malaria  Measles  Mumps	33 36 1 17 3 7 6 99 31	KANSAS  Cerebrospinal meningitis:     Junction City     Kansas City Chicken pox Diphtheria German measics Influenza Measics Mumps	1 77 7 21 17 851 52
Whooping cough  Chicken pov. Dengue Diphtheria German measles Influenza Malaria Measles Mumps Pneumonia	33 36 1 17 3 7 6 99 31 6	KANSAS  Cerebrospinal meningitis:     Junction City     Kansas City     Chicken pox Diphtheria German measles. Influenza Measles	1 77 7 21 17 851
Whooping cough  Chicken pov.  Dengue  Diphtheria  German measles  Influenza  Malaria  Measles  Mumps  Pneumonia  Scarlet fever	33 36 1 17 3 7 6 99 31 6	KANSAS  Cerebrospinal meningitis:     Junction City     Kansas City Chicken pox Diphtheria German measics Influenza Measics Mumps	1 77 7 21 17 851 52 20 76
Whooping cough  Chicken pox Dengue Diphtheria German measles Influenza Malaria Measles Mumps Pneumonia Scarlet fever Smallpox	33 36 1 17 3 7 6 99 31 6 8	KANSAS  Cerebrospinal meningitis:     Junction City     Kansas City Chicken pox Diphtheria German measics Influenza Measles Mumps Pneumonia	1 77 7 21 17 851 52 20
Whooping cough  Chicken pox  Dengue Diphtheria German measles Influenza Malaria Measles Mumps Pneumonia Scorlet fever Smallpox Tuberculosis	33 36 1 17 3 7 6 99 31 6 8	KANSAS  Cerebrospinal meningitis:     Junction City     Kansas City     Chicken pox     Diphtheria     German measics.     Influenza     Measles     Mumps     Pneumonia     Scarlet fever     Smallpox     Tuberculosis.	1 77 7 21 17 851 52 20 76
Whooping cough  Chicken pox.  Dengue Diphtheria  German measles Influenza Malaria Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	33 36 1 17 3 7 6 99 31 6 8 70	KANSAS  Cerebrospinal meningitis:     Junction City     Kansas City Chicken pox Diphtheria German measics Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever.	1 77 7 21 17 851 52 20 76
Whooping cough  Chicken pox  Dengue Diphtheria German measles Influenza Malaria Measles Mumps Pneumonia Scorlet fever Smallpox Tuberculosis	33 36 1 17 3 7 6 99 31 6 8 70	KANSAS  Cerebrospinal meningitis:     Junction City     Kansas City     Chicken pox     Diphtheria     German measics.     Influenza     Measles     Mumps     Pneumonia     Scarlet fever     Smallpox     Tuberculosis.	1 77 7 21 17 851 52 20 76 14
Whooping cough  Chicken pox.  Dengue Diphtheria  German measles Influenza Malaria Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	33 36 1 17 3 7 6 99 31 6 8 70	Cerebrospinal meningitis: Junction City Kansas City Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever. Whooping cough	1777 7721 17851 522 2076 1435
Whooping cough  Chicken pov.  Dengue Diphtheria German measles Influenza Malaria Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	33 36 1 17 3 7 6 99 31 6 8 70 10	KANSAS  Cerebrospinal meningitis:     Junction City     Kansas City Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	1777 7 21 17 851 52 20 76 14 35 2 127
Whooping cough  Chicken pox.  Dengue Diphtheria German measles Influenza Malaria Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhold fever Whooping cough	33 36 1 17 3 7 6 99 31 6 8 70 10 11 47	KANSAS  Cerebrospinal meningitis:     Junction City     Kansas City Chieken pox Diphtheria German measics Influenza Measics Mumps Pneumonia Scarlet fever. Smallpox. Tuberculosis Typhoid fever. Whooping cough LOUISIANA Diphtheria.	1777 77 21 177 851 52 20 76 14 35 2 127
Whooping cough  Chicken pox	33 36 1 17 3 7 6 99 31 6 8 70 10 11 47	Cerebrospinal meningitis: Junction City Kansas City Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough LOUISIANA Diphtheria Influenza	1777 77 211 177 851 522 200 766 144 35 22 127 127 22
Whooping cough  Chicken pox  Dengue  Diphtheria  German measles  Influenza  Malaria  Measles  Mumps  Pneumonia  Scarlet fever  Smallpox  Tuberculosis  Typhoid fever  Whooping cough  GEORGIA  Chicken pox  Diphtheria	33 36 1 17 3 7 6 99 31 6 8 70 10 11 47	Cerebrospinal meningitis: Junction City Kansas City Chicken pox Diphtheria German measics Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough LOUISIANA Diphtheria Influenza Malaria	1777 77 21 177 851 52 20 76 14 35 2 127 12 22 38
Whooping cough  Chicken pox  Dengue  Diphtheria  German measles  Influenza  Malaria  Measles  Mumps  Pneumonia  Scarlet fever  Smallpox  Tuberculosis  Typhoid fever  Whooping cough  GEORGIA  Chicken pox  Diphtheria  Dysentery	33 36 1 17 3 7 6 99 31 6 8 70 10 11 47	Cerebrospinal meningitis: Junction City Kansas City Chicken pox Diphtheria German measics Influenza Measics Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough LOUISIANA Diphtheria Influenza Malaria Measics	1777 77 21 177 851 52 20 76 14 35 2 127 12 22 38 57
Whooping cough  Chicken pox.  Dengue Diphtheria  German measles Influenza Malaria Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  GEORGIA Chicken pox Diphtheria Dysentery Hookwarm disease	33 36 1 17 3 7 6 99 31 6 8 70 10 11 47	Cerebrospinal meningitis: Junction City Kansas City Chicken pox Diphtheria German measics Influenza Measics Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  LOUISIANA Diphtheria Influenza Malaria Measics Pellagra	1777 77 21 177 851 52 200 766 144 35 2 127 12 22 38 57 8
Whooping cough  Chicken pox	33 36 1 17 3 7 6 99 31 6 8 70 10 11 47 19 9 2 24 48	Cerebrospinal meningitis: Junction City Kansas City Chieken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough LOUISIANA Diphtheria Influenza Measles Malaria Measles Pellagra Preumonia	1 777 7 21 177 8511 52 20 764 144 355 2 2 127 127 12 22 23 8 8 57 8 57
Whooping cough  Chicken pox Dengue Diphtheria German measles Influenza Malaria Measles Mumps Pneumonia Scarlet fever Smalipox Tuberculosis Typhoid fever Whooping cough  GEORGIA Chicken pox Diphtheria Dysentery Hookwarm disease Influenza Malaria Malaria	33 36 1 17 3 7 6 99 31 6 8 70 10 11 47 19 9 2 24 44 48 8	Cerebrospinal meningitis: Junction City Kansas City Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough LOUISIANA Diphtheria Influenza Malaria Measles Pellagra Pneumonia Scarlet fever	1 777 7 21 177 8511 52 20 766 144 35 2 2 127 12 22 22 38 57 7 8 57 24
Whooping cough  Chicken pox	33 36 1 17 3 7 6 99 31 6 8 70 10 11 47 19 9 2 24 48 24 140 39	Cerebrospinal meningitis: Junction City Kansas City Chicken pox Diphtheria German measics Influenza Measics Mumps Pneumonia Scarlet fever Smallpox LOUISIANA Diphtheria Influenza Measics LOUISIANA Diphtheria Influenza Measics Pellagra Pneumonia	1 777 7 21 17 851 17 852 20 766 14 35 2 21 27 12 22 38 8 57 8 57 24 17
Whooping cough  Chicken pov.  Dengue Diphtheria German measles Influenza Malaria Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  GEORGIA Chicken pox Diphtheria Dysentery Hookwarm disease Influenza Malaria Measles Mumps Measles Mumps	33 36 1 17 3 7 6 99 31 6 8 70 10 11 47 19 9 2 24 48 24 140 39 8	Cerebrospinal meningitis: Junction City Kansas City Chicken pox Diphtheria German measics Influenza Measics Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough LOUISIANA Diphtheria Influenza Measics Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough LOUISIANA Diphtheria Influenza Malaria Measics Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis	1 777 7 21 177 851 152 200 766 144 35 52 222 38 57 8 57 24 17 17 65 65
Whooping cough  Chicken pox	33 36 1 17 3 7 6 99 31 6 8 70 10 11 47 19 9 2 24 48 24 140 39 8 51	Cerebrospinal meningitis: Junction City Kansas City Chieken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough LOUISIANA Diphtheria Influenza Malaria Measles Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	1 777 7 21 177 851 17 851 14 35 52 20 766 14 35 57 8 8 57 24 17 17 17 16 65 14
Whooping cough  Chicken pox  Dengue  Diphtheria  German measles  Influenza  Measles  Mumps  Pneumonia  Scarlet fever  Smallpox  Tuberculosis  Typhoid fever  Whooping cough  GEORGIA  Chicken pox  Diphtheria  Dysentery  Hookwarm disease  Influenza  Malaria  Measles  Mumps  Pellagra  Pellagra  Pneumonia	33 36 1 17 3 7 6 99 31 6 8 70 10 11 47 19 9 2 24 44 48 24 140 39 8 51 8	Cerebrospinal meningitis: Junction City Kansas City Chicken pox Diphtheria German measics Influenza Measics Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough LOUISIANA Diphtheria Influenza Measics Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  LOUISIANA Diphtheria Influenza Malaria Measics Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	1 777 7 21 177 851 152 200 766 144 35 52 222 38 57 8 57 24 17 17 65 65
Whooping cough  Chicken pox	33 36 1 17 3 7 6 99 31 6 8 70 10 11 47 19 9 2 24 48 24 140 39 8 51 8	Cerebrospinal meningitis: Junction City Kansas City Chieken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough LOUISIANA Diphtheria Influenza Malaria Measles Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	1 777 7 21 177 851 17 851 14 35 52 20 766 14 35 57 8 8 57 24 17 17 17 16 65 14
Whooping cough  Chicken pox  Dengue Diphtheria German measles Influenza Malaria Measles Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  GEORGIA  Chicken pox Diphtheria Dysentery Hookwarm disease Influenza Malaria Measles Mumps Preumonia Searlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	33 36 1 17 3 7 6 99 31 6 8 70 10 11 47 19 9 2 24 4 48 24 140 39 8 51 8 8 10 11 11 11 11 11 11 11 11 11 11 11 11	Cerebrospinal meningitis: Junction City Kansas City Chicken pox Diphtheria German measics Influenza Measics Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough LOUISIANA Diphtheria Influenza Measics Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  LOUISIANA Diphtheria Influenza Malaria Measics Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	1 777 7 21 177 851 17 851 14 35 52 20 766 14 35 57 8 8 57 24 17 17 17 16 65 14
Whooping cough  Chicken pox	33 36 1 17 3 7 6 99 31 6 8 70 10 11 47 19 9 2 24 4 48 24 140 39 8 51 8 8 10 11 11 11 11 11 11 11 11 11 11 11 11	Cerebrospinal meningitis: Junction City Kansas City Chicken pox Diphtheria German measics Influenza Measics Mumps Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough LOUISIANA Diphtheria Influenza Measics Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough LOUISIANA Diphtheria Influenza Malaria Measics Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	1777 7 211 177 851 52 20 766 144 35 57 24 177 65 144 7

MAINE-continued		MINNESOTA	
	Cases		Cares
German measles		Chicken pox	119
Glanders		Diphtheria	47
Influenza		Influenza	7
Measles		Measles	708
Mumps		Pneumonia.	2
Pneumonia.		Scarlet fever	343
Scarlet fever		Smallpox.	13
Tuberculosis	_ 5	Tuberculosis	60
Vincent's angina	- 1 - 7	Typhoid fever	2
Whooping cough	22	Whooping cough	55
	- 22	MISSISSIPPI	
MARYLAND 1		Diphtheria	7
Cerebrospinal meningitis	_ 1	Influenza	293
Chicken pox		Scarlet fever	4
Diphtheria	_ 16	Smallpox	24
German measles	. 2	Typhoid fever	8
Impetigo contagiosa			
Influenza		MISSOURI	
Measles			1
Mumps		Cerebrospinal meningitis Chicken pox	49
Ophthalmia neonatorum		Diphtheria.	66
Pneumonia (broncho)		Epidemic sore throat	1
Pneumonia (lobar)		Influenza	7
Scarlet fever		Measles	
Septic sore throat		Pneumonia	8
Tetanus Tuberculosis		Rabies	8
Typhoid fever		Scarlet fever	265
Typhus fever		Smallpox	10
Whooping cough	. 76	Tuberculosis	21
Tr nooping cought	0	Typhoid fever	5
MASSACHUSETTS		Whooping cough	70
Actinomycosis	_ 1		
Cerebrospinal meningitis		MONTANA	
Chicken pox		Cerebrospinal meningitis	2
Conjunctivitis (suppurative)		Chicken pox	
Diphtheria		Diphtheria	
German mersles.		German measles	
Influenza		Measles.	106
Lethargic encephalitis		Mumps	. 8
Measles		Rocky Mountain spotted fever:	
Mumps		Bonita	
Ophthalmia neonatorum Pneumonia (lobar)		Jordan	
Poliomyelitis	-	Scarlet fever	
Scarlet fever		Smallpor	
Trachoma		Tuberculosis	
Tuberculosis (pulmonary)		Whooping cough	. 14
Tuberculosis (other forms)			
Typhoid fever		NEBRASKA	
Whooping cough		Chicken pox	
		Diphtheria	
MICHIGAN		German measles	. 4
Diphtheria		Influenza	
Measles		Measles.	
Pneumonia		Mumps.	
Scarlet fever		Scarlet fever	
Smallpox		Smallpox	
Tuberculosis		Tuberculosis Typhoid fever	
Typhoid fever		4	
Whooping cough		1 Hoohing tonen	
¹ Week ended Friday.			

NEW JERSEY	1	OKLAHOMA-continued	
ALD W BEHADE	Cases	•	28505
Cerebrospinal meningitis	1	Malaria.	37
Chicken pox	188	Measles	114 15
Diphtheria	74 13	Mumps Pellagra	10
Influenza Measles Measles	- 1	Pneumonia	95
Pneumonia	190	Poliomyelitis—Custer County	1
Poliomyelitis	1	Scarlet fever	24
Scarlet fever	177	Smallpox:	
Typhoid fever	8	Tillman County	20
Whooping cough	88	Scattering	17
NEW MEXICO		Typhoid fever	10
Chicken pox.	17	Whooping cough	66
Diphtheria	3	OREGON	
Influenza	1	VIII ON	
Measles	13	Cerebrospinal meningitis	1
Mumps	20	Chicken pox	48
Pellagra	1	Diphtheria	8
Pneumonia	3 2	Influenza	17
Rabies (in animals)	15	Lethargic encephalitis	1
Smallpox	6	Measles Mumps	64 38
Tuberculosis	17	Pneumonia.	22
Typhoid fever	2	Scarlet fever	35
Whooping cough	37	Septic sore throat	1
NEW YORK		Smallpox	11
		Tuberculosis	19-
(Exclusive of New York City)		Typhoid fever	3
Cerebrospinal meningitis	4	Whooping cough	31
Chicken pox	336 93		
German measles	614	PENNSYLVANIA	
Influenza	241	Cerebrospinal meningitis:	
Lethargic encephalitis		Laceyville	1
Malaria		McKees Rocks	1
Measles	2, 416	Chicken pox	284
Mumps		Diphtheria	124
Ophthalmia neonatorum		German measles	69
Pneumonia		Impetigo contagiosa	12
PoliomyclitisScarlet fever		Lethargic encephalitis—Philadelphia	2
Septic sore throat		Measles	
Smallpox		Mumps	. 73
Tetanus		Ophthalmia neonatorum—Philadelphia Pellagra	4
Typhoid fever		Pneumonia	72
Vincent's angina	51	Poliomyclitis-Noyes Township 3	1
Whooping cough	473	Scabies	2
NORTH CAROLINA		Scarlet fever	436
		Smallpox	5
Cerebrospinal meningitis Chicken pox		Tuberculosis	104
Diphtheria.		Typhoid fever	24
German measles		Whooping cough	318
Measles		RHODE ISLAND	
Scarlet fever			
Septic sore throat	. 1	Chicken pox	1
Smallpox		Diphtheria	5
Typhoid fever		German measles	48
Whooping cough	<b>27</b> 9	MeaslesMumps	89 1
OKLAHOMA		Ophthalmia neonatorum	
(Exclusive of Oklahoma City and Tuls	a.)	Scarlet fever	
Chicken pox	. 27	Tuberculosis	6
Diphtheria	. 16	Typhoid fever	1
Influenza	215	Whooping cough	14
Deaths.		*County not specified.	

SOUTH DAKOTA	Cases	WASHINGTON	
Chieles new	Cases	Cerebrospinal meningitis:	a
Chicken pox	15	Crebrospinal meningitis.	Cases
Diphtheria	5	Spokane	3
Influenza	1	Stevens County	2
Measles	29	Chicken pox	59
Mumps	48	Diphtheria	19
Pneumonia		German measles	126-
Poliomyelitis	1	Measles	59
Consist forces		Mumps	27
Scarlet fever		Seer lat fewer	
Smallpor	1	Scarlet fever	34
Whooping cough	13	Smallpox	48
TENNESSEE		Tuberculosis	54
TENNESSEE	- 1	Typhoid fever	5
Cerebrospinal meningitis-Chattanooga	. 1	Whooping cough	62
Chicken pox.			
Diphtheria		WEST VIRGINIA	
		Chicken pot	22
Influenza		Diphtheria	11
Malaria		Influenza	57
Measles		Measles	904
Mumps	8		
Ophthalmia neonatorum		Scarlet fever	28
Pellagra		Smallpox	11
Pneumonia	47	Tuberculosis	37
		Typhoid fever	8
Scarlet fever	23	Whooping cough	26
Smallpox:	1		
Lauderdale County	18	WISCONSIN	
Scattering	24	Milwaukee	
Tuberculosis	30	Chicken pox.	39
Typhoid fever	9		11
Whooping cough	39	Diphtheria	
w mooping coagain	0.0	German measles	5
TEYAS	1	Influenza	3
Anthrax	1	Measles.	270
Cerebrospinal meningitis		Mumps.	39
Chicken pox.		Pneumonia	30
	. 1	Scarlet fever	14
Dengue		Tuhereulosis.	26
Diphtheria		Typhoid fever	1
Influenza	401		
Measles	19	Whooping cough	30
Mumps	47	Scattering:	
Pellagra		Cerebrospinal meningitis	3
Pneumonia		Chicken pox	73
	1	Diphtheria	16
Scarlet fever	1	German measles	143
Smallpox		Influenza	243
Trachoma	1	Measles	
Tuherculosis			
Typhoid fever	5	Mumps	
Whooping cough	76	Pneumonia	
	- 1	Scarlet fever	
Chicken non	33	Smallpox	4
Chicken pox		Tuberculosis.	23
Diphtheria			
Influenza			5
Approximation of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	6	Typhoid fever	
Measles	6 27		
Measles	6 27	Typhoid fever	
Measles	6 27 17	Typhoid feverWhooping cough	103
Measles	6 27 17 4	Typhoid fever	103
Measles	6 27 17 4 2	Typhoid fever	103 2 1
Measles Mumps Pneumonia Scarlet fever Smallpox	6 27 17 4 2	Typhoid fever	103 2 1 4
Measles	6 27 17 4 2 7	Typhoid fever	103 2 1 4
Measles Mumps Pneumonia Scarlet fever Smallpox	6 27 17 4 2 7	Typhoid fever	103 2 1 4
Measles Mumps Pneurnonia Scarlet fever Smallpox Typhoid fever Whooping cough	6 27 17 4 2 7	Typhoid fever	103 2 1 4
Measles Mumps Pneumonia Scarlet fever Smallpox Typhoid fever Whooping cough , VERMONT	6 27 17 4 2 7 2 165	Typhoid fever.  Whooping cough.  WYOMING  Chicken pox.  Diphtheria.  Measles  Mumps  Rocky Mountain spotted fever:  Campbell County.	103 2 1 4 4
Measles Mumps Pneurmonia Scarlet fever Smallpox Typhoid fever Whooping cough , VERMONT Chicken pox	6 27 17 4 2 7 2 165 20	Typhoid fever	103 2 1 4 4 2 2
Measles Mumps Pneumonia Scarlet fever Smallpox Typhoid fever Whooping cough VERMONT Chicken pox Measles	6 27 17 4 2 7 2 165 20 49	Typhoid fever.  Whooping cough.  WYOMING  Chicken pot.  Diphtheria.  Measles.  Mumps.  Rocky Mountain spotted fever:  Campbell County.  Hot Springs County.  Natrona County.	103 2 1 4 4 2 2
Measles Mumps Pneumonia Scarlet fever Smallpox Typhoid fever Whooping cough  Chicken pox Measles Mumps	6 27 17 4 2 2 7 165 165 20 49 9	Typhoid fever  WHOMING  Chicken pox Diphtheria. Measles. Mumps. Rocky Mountain spotted fever: Campbell County. Hot Springs County. Natrona County. Niobrata County.	103 2 1 4 4 2 2 1
Measles Mumps Pneumonia Scarlet fever Smallpox Typhoid fever Whooping cough , VERMONT Chicken pox Measles Mumps Scarlet fover	6 27 17 4 2 7 2 165 20 49 9 6	Typhoid fever  Whooping cough  WYOMING  Chicken pox Diphtheria Measles Mumps Rocky Mountain spotted fever: Campbell County Hot Springs County Natrona County Niobrara County Washakie County	103 2 1 4 4 2 2 1 1 1 5
Measles Mumps Pneumonia Scarlet fever Smallpox Typhoid fever Whooping cough  Chicken pox Measles Mumps	6 27 17 4 2 7 2 165 20 49 9 6	Typhoid fever.  Whooping cough.  WYOMING  Chicken pox.  Diphtheria.  Measles.  Mumps.  Rocky Mountain spotted fever:  Campbell County.  Hot Springs County.  Natrona County.  Niobrara County.  Washakie County.  Scarlet fever.	103 2 1 4 4 2 2 1 1 1 5
Measles Mumps Pneumonia Scarlet fever Smallpox Typhoid fever Whooping cough , VERMONT Chicken pox Measles Mumps Scarlet fover	6 27 17 4 2 7 2 165 20 49 9 6	Typhoid fever  Whooping cough  WYOMING  Chicken pox Diphtheria Measles Mumps Rocky Mountain spotted fever: Campbell County Hot Springs County Natrona County Niobrara County Washakie County	103 2 1 4 4 2 2 1 1 5 14 5

### Report for Week Ended May 1, 1926

NORTH DAKOTA	Cases	NORTH DAKOTA-continued	Cases
Cerebrospinal meningitis	1	Pneumonia	15
Chicken pox	5	Scarlet fever	99
Diphtheria		Smallpox	1
German measles	96	Tuberculosis	
Influenza	1	Typhoid fever	2
Measles.		Whooping cough	2
Mumos			

### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Cere- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pov	Ty- phoid fever
March, 1926  Alabama Idaho Missouri North Carolina Oklahoma 1 Wyoming	3 25 0 1 1	48 24 290 107 65 6	6, 695 24 260 7, 943 101	26 0 0 62 0	521 106 2, 439 1, 094 127	15 0 0 26 0	2 0 0 0 0	80 85 1, 195 127 193 77	150 94 50 137 102	30 6 7 6 14 0

¹ Exclusive of Oklahoma City and Tulsa.

### PLAGUE-ERADICATIVE MEASURES IN LOS ANGELES, CALIF.

The following items were taken from the report of plague-eradicative measures from Los Angeles, Calif.:

Week ended Apr. 24, 1926:

Number of rats trapped	494
Number of rats found to be plague infected	0
Number of squirrels examined	645
Number of squirrels found to be plague infected	0
Number of mice trapped	721
Number of mice found to be plague infected	.0
Date of discovery of last plague-infected rodent, Nov. 6, 1925.	
Date of last human case Ian 15 1025	

# GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended April 24, 1926, 37 States reported 1,090 cases of diphtheria. For the week ended April 25, 1925, the same States reported 1,232 cases of this disease. One hundred and three cities, situated in all parts of the country and having an aggregate population of nearly 30,500,000, reported 689 cases of diphtheria for the week ended April 24, 1926. Last year for the corresponding week they reported 893 cases. The estimated expectancy for these

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cities was 903 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-two States reported 16,514 cases of measles for the week ended April 24, 1926, and 5,239 cases of this disease for the week ended April 25, 1925. One hundred and three cities reported 10,463 cases of measles for the week this year and 3,559 cases last year.

Poliomyelitis.—The health officers of 38 States reported 10 cases of poliomyelitis for the week ended April 24, 1926. The same States reported 22 cases for the week ended April 25, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: 37 States—this year, 3,569 cases; last year, 3,658 cases; 103 cities—this year, 1,655 cases; last year, 2,000 cases; estimated expectancy, 1,117 cases.

Smallpox.—For the week ended April 24, 1926, 38 States reported 843 cases of smallpox. Last year for the corresponding week they reported 919 cases. One hundred and three cities reported smallpox for the week as follows: 1926, 181 cases; 1925, 342 cases; estimated expectancy, 128 cases. Four deaths from smallpox were reported by these cities for the week this year—1 at Omaha, Nebr., 2 at Los Angeles, Calif., and 1 at San Francisco, Calif.

Typhoid fever.—One hundred and sixty-two cases of typhoid fever were reported for the week ended April 24, 1926, by 36 States. For the corresponding week of 1925 the same States reported 249 cases of this disease. One hundred and three cities reported 45 cases of typhoid fever for the week this year and 90 cases for the corresponding week last year. The estimated expectancy for these cities was 52 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 96 cities, with a population of more than 29,750,000, as follows: 1926, 1,364 deaths; 1925, 1,260.

### City re ports for week ended April 24, 1926

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

		<i>a</i>	Diph	theria	Influ	enza			
Division, State, and July	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti mated expect- ancy	Cases re- ported	Cases 1e- ported	Deaths re- ported	Mea- sles, cases re- perted	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine: Portland	75, 333	5	1	2	4	1	175	12	1
New Hampshire: Concord	22, 546	0	0	0	0	0	0	0	3
Vermont:	10,008	0	0	0	0	0	0	1	1
Barre Burlington Massachusetts:	24, 089	ő	ő	ŏ	ŏ	Ö	ő	Ò	1
Roston	779, 620	24 1	52 3	15 3	11	6 2	174 7	23 1	41
Fall River Springfield	123, 993 142, 065	3	3 4	0	. 5	1	73	0	17
Worcester Rhode Island: Pawtucket	190, 757	0		5	7	0	6	1	13
Providence Connecticut:	69, 760 267, 918	ő	10	0 2	. 0	0 2	33 100	0	0 5
Bridgeport	(1)	0	6	2	2 3	5	5	0	2 7
Hartford New Haven	160, 197 178, 927	7	6 3	2 0	2	0	48 75	1 2	7
MIDDLE ATLANTIC									
New York:	F00 014					_	00		
Buffalo New York	538, 016 5, 873, 356 316, 786	17 104	9 249	9 165	98	1 43	1, 540	0	25 310
Rochester Syracuse New Jersey:	182,003	9	6	27 2	0	0	131	18	11
Camden	128, 642	10	4	2	4	3	23	0	5
Newark Trenton Pennsylvania:	452, 513 132, 020	27 1	16 3	7	2 3	0	299 72	15 0	16 10
Philadelphia	1, 979, 364	102	70	96		12	801	8	75
Pittsburgh Reading	631, 563 112, 707	14 2	17	13		7	185 25	0	25 2
east north central									
Ohio:									
Cincinnati Cleveland	409, 333 936, 485	8 17	20	5 31	5 7	13 10	159 161	5	15 36
Toledo	279, 836 287, 380	38	4	1 2	0	2 5	367 238	0	7
Indiana: Fort Wayne	97,846	3	2	1	0	1	45	0	4
Indianapolis South Bend	358, 819 80, 091	10	5	3	0.0	1 0	279 26	3	19 2
Terre Haute	71, 071	ŏ	î	ŏ	ŏ	ŏ	32	ŏ	í
Chicago Peoris	2, 995, 239 81, 564	82 5	94	49 0	28 0	· 8	164 0	20 2	71 5
Springfield	81, 564 63, 923	3	ĭ	ŏ	3	2	55	4	2
Detroit Flint	1, 245, 824 130, 316	22 17	45 3	26 2	6	18 2	260 67	3 0	70
Grand Rapids	153, 698	7	4	1	ŏ	í	48	ő	6
¹ We estimate made.									

# City reports for week ended April 24, 1926-Continued

			Dipht	heria	Infli	1enza	25		D
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
EAST NORTH CENTRAL— continued									
Wisconsin: KenoshaMadisonMilwaukeeRacineSuperior	50, 891 46, 385 509, 192 67, 707 39, 671	2 4 67 1 0	1 0 12 2 1	0 0 9 0	0 0 13 2 0	0 3 0 0	1 215 177 35 49	0 0 42 7 0	5 31 5
WEST NORTH CENTRAL									
Minnesota: Duluth Minneapolis St. Paul	110, 502 425, 435 246, 001	12 49 20	1 15 14	0 23 10	0	4	23 387 69	1 5 8	1 14 17
Iowa: Davenport Des Moines Sioux City Waterloo	52,469 141,441 76,411 36,771	6 0 1 3	0 2 1 0	0 0 2 0	0		0 0 21 33	0 0 1 0	
Missouri: Kansas City St. Joseph St. Louis	367, 481 78, 342 821, 543	10 1	6 1 39	6 0 46	. 9	0	35		13 3
North Dakota: FargoGrand Forks	26, 403 14, 811	1 0	0	0			- 0		2
South Dakota: AberdeenSioux Falls	15,036 30,127	4 2	0	0		3	29	33	ō
Nebraska: Lincoln Omaha	C0, 941 211, 768	11 4	2 3	1 2				i l	2 13
Kansas: Topeka Wichita	55, 411 88, 367	26		0			20		
SOUTH ATLANTIC		l							
Delaware: Wilmington	122.049		1		2	0	0 1		4
Maryland: BaltimoreCumberland Frederick	796, 296 33, 741 12, 036		. 0	1 (		o l	6 17 0 1 0 1	5	52 3 1 0
District of C lumbia. Washington	497, 906		1			0	0 58	5	0 8
Virginia: Lynchburg Norfolk Richmond	186, 40	3 2	4	2	1 0 3	0	0 6	5 1 1	0 2 0 3 0 3 0 7
Roanoke	58, 20	9	5 (	0	0	1 0	1 1	1 55	0 4
Wheeling North Carolina:		1	1	0	0	0	0	0	0 9
Raleigh Wilmington Winston-Salem	37,06	1 (	6 1	0	0	0	0	24	3 2
South Carolina: Charleston Columbia		5 5	6	0	0	2 0 0	0	4 0 4	2 2 2
Greenville Georgia: Atlanta Brunswick	(1)	99	1	1 1 0	1 0 0	12 2 3	0 0 2	14 0 4	0 1
SavannahFlorida: St. Petersburg Tampa		47	10-	0	2		0	8	

¹ No estimate made.

City reports for week ended April 24, 1926—Continued

		al I	Diph	theria	Infl	ienza	3.6		
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
EAST SOUTH CENTRAL									
Kentucky: Covington Louisville Tennessee:	58, 309 305, 935	0 2	1 4	0	0	1 1	27 307	0	2 26
Memphis Nashville	174, 533 136, 220	31 0	3 0	2	0	6 8	217 43	3	6 6
Alabama: Birmingham Mobile Montgomery	65, 955	10 0 7	1 0 0	0 0 1	9 0 2	3 1 0	55 0 15	3 0 32	7 3 0
WEST SOUTH CENTRAL Arkansas:									
Fort Smith Little Rock Louisiana:	31, 643 74, 216	5	0	0	0	0	0 30	0	ō
New Orleans Shreveport Oklahoma:	57, 857	14 5	7	2 1	6 0	5 2	6 2	0 16	12 4
Oklahoma City Texas: Dallas	:	0 25	3	0 2	10	1 4	4	0	1
Galveston Houston San Antonio	. 48, 375	0 0	0 2 1	0 5 1	0 0	0 3 0	0	0 0	2 0 5 6
MOUNTAIN									
Montana: Billings	17, 971 29, 883 12, 037 12, 668	0 15 0 0	1 1 0	0 0 0	0 0	0 0 1	24 38 0 1	6 1 0 9	0 0
Boise	23, 042	0	0	0	0	0	0	0	0
Denver Eueblo New Mexico:	280, 911 43, 787	56 11	11	7 0	ō	4 0	29 11	0	9 1
Alburquerque Arizona:	į.	1	1	1	0	0	3	5	1
PheonixUtah: Salt Lake City	i	30	3	0 2	0	3	0 15	0	0
Nevada: Reno	12, 665	0	. 0	0	0	0	15	14	2
Pacific				•					
Washington: Seattle Spokane Tacoma Oregon:	(1) 108, 897 104, 455	39 7 3	4 3 1	2 2 1	0 0	0	47 0 6	21 0 3	i
Oregon: Portland California:	282, 383	23	4	11	0	1	24	7	7
Los Angeles Sacramento San Francisco	(1) 72, 260 557, 530	43 3 42	33 1 21	38 4 7	9 0 0	1 0 0	18 0 116	. 11 . 6 . 9	14 3 2

¹ No estimate made.

# City reports for week ended April 24, 1926—Continued

	Scarlet fever		Smallpox			Tuher-	T3	Typhoid fever			
Division, State, and city	Cases, esti- mated expect- ancy	Cases, re- ported	Cases, esti- mated expect- ancy	Cases, re- ported	Deaths re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Whoop- ing cough, cases re- ported	Deaths, all causes
NEW ENGLAND											
Maine: Portland New Hampshire: Concord	3	1 0	0	0	0	0	1 0	0	0	10 0	21 15
Vermont: Barre Burlington	1	0	0	0	0	1 2	0	0	0	0	2 18
Massachusetts: Boston Fall River Springfield Worcester	58 3 5 9	59 2 3 3	0	0 0 0 0	0 0 0	16 6 1 4	1 1 1 0	1 0 0 0	0 0 0	76 2 14	275 71 38
Rhode Island: Pawtucket Providence	1 8	1 3	0	0	6	0 11	0	0	0	10 7 6	65 25 90
Connecticut: Bridgeport Hartford New Haven	8 4 8	10 2 10	0	0	0	2 3 0	0 0 1	. 0	0 0 0	2 4 17	38 44 41
MIDDLE ATLANTIC											
New York: Buffalo New York Rochester Syracuse	20 248 17 13	14 185 13 2	0 0 0	0000	0 0 0 0	16 1 132 6 2	0 10 0 1	0 12 0 0	0 3 0 0	42 78 2 33	165 1, 731 94 49
New Jersey: Camden Newark Trenton	3 25 2	8 16 3	0 0 1	0 0 0	0	0 11 0	0 1 0	0 1 0	0 0 0	0 26 2	53 120 48
Pennsylvania: Philadelphia Pittsburgh Reading	76 22 3	110 41 12	- 1 - 0 0	0 0 0	0 0 0	52 7 2	3 1 0	2 1 0	1 0 0	42 115 12	566 203 24
EAST NORTH CENTRAL											
Ohio: Cincinnati Cleveland Columbus Toledo	15 21 7 15	13 58 11 16	2 1 1 5	1 0 2 0	0 0 0	8 22 4 20	1 1 0 0	0 0 0 0	0 0	34 101 2 51	165 245 78 98
Indiana: Fort Wayne Indianapolis South Bend Terre Haute	3 14 3 2	0 12 7 2	2 5 1 2	10 16 0	0 0 0	1 5 0 0	0 0 0	0 0 0 0	0 0 0	3 67 13 2	26 129 11 17
Illinois: Chicago Peoria Springfield	110 2 1	120 1 3	2 1 1	1 0 0	0 0 0	52 1 2	2 0 1	0 0 0	0 0	29 5 9	715 29 25
Michigan: Detroit Flint Grand Rapids	81 6 7	121 18 19	3 1 2	0 1 0	0 0 0	35 2 2	2 0 0	0	0 0	55 19 26	411 29 50
Wisconsin: Kenosha Madison Milwaukee Racne Superior	2 4 27 3 2	2 4 17 8 9	1 1 3 2 1	0 1 0 0	0 0 0	0 9 1 2	0 0 1 0	0 0 0 1 0	0 0 0 0	7 4 30 19 0	14 143 19 19
WEST NORTH CENTRAL											
Minnesota: Duluth Munneapolis St. Paul	4 29 24	25 68 38	1 9 5	0 0 0	0 0 0	0 10 6	1 1 0	0 2 1	0	4 2 17	21 137 77

¹ Pulmonary tuberculosis only.

City reports for week ended April 24, 1926—Continued

	Scarle	t fever		Smallpo	x	Tuber-	Т3	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases, re- ported	Cases, esti- mated expect- ancy	Cases, re- ported	Deaths re- ported	culo-	Cases, esti- nuted expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST NORTH CEN- TRAL—continued											
Iowa:				١.						_	
Davenport Des Moines	2 8	3 4	3	0			0	0		3 0	
Sioux City	3	5 0	1 0	9 2			0	0		2 7	
Waterloo Missouri:											
Kansas City St. Joseph	11 2	27 15	2 0	0	0	5 0	0	0	0	29	118 34
St Louis	33	200	4	5	Ŏ	11	2	Ŏ	ŏ		258
North Dakota Fargo	1	8	0	1	0	1	0	0	0	0	6
Grand Forks South Dakota.	0	0	0	0			0	0		0	
Aberdeen	1	3	0	ŏ			0	Ó		5	
Sioux Falls Nebraska	1	0	0	0	0	. 0	0	0	0	0	10
Lincoln Omaha	3	2 51	0 7	6	0	0	0	0	0	8	26 74
Kansas: Topeka	3	6	1	1	0	0	0		ł		
Witchita	2	3	3	ò	ŏ	ĭ	1	0	0	0 7	10 26
SOUTH ATLANTIC											
Delaware: Wilmington	3	6	0	o	o	0	0	0			
Maryland:	1	1	1		1				0	, 3	42
Baltimore	30	25 0	0	0	0	28 0	2 0	2 0	2	70	262 12
Frederick District of Col.:	2	0	0	0	0	ō	Õ	Ö	ŏ	ŏ	4
Washington	23	21	1	0	0	16	1	0	0	29	126
Virginia: Lynchburg	0	0	0	0	0	2	0	0	0	8	15
Norfolk Richmond	1 2	12 7	0	0	0	6	0	0	0	18	
Roanoka I	ī	i	ŏ	ŏ	ŏ	5 0	ŏ	ŏ	0	2 2	65 20
West Virginia: Charleston	1	0	1	o	0	2	0	0	2	3	26
Wheeling North Carolina:	2	5	0	U	0	1	0	1	ō	ő	25
Raleigh	0	0	0	o o	0	1	0	0	0	1	12
	- 1	1	1	0	0	0	0	0	Ó	2	5
Salem South Carolina:	1	5	5,	1	0	2	0	0	0	4	19
Charleston Columbia	0	0	1	0 2	0	1	1	Ó	0	0	27
Greenville	ŏ	ĭ	î	õ	0	0 2	0	0	0	1 5	10
Georgia: Atlanta	4	1	4	0	0	6	0	0	0	6	71
Brunswick Savannah	0	0	0 1	0	0	1 5	0	0	0	0	5
Florida: St. Petersburg	0	-						U		0	33
Tampa	ŏ	1	0	22	0	1 3	0	·ō	0		21 35
EAST SOUTH CENTRAL											00
Kentucky:					-					-	
Covington Louisville	2 5	0	0	0	0	3	1	0	o	2	24
Tennessee:	1				0	6	1	0	0	7	104
Memphis Nashville	4 2	36 0	3	0	0	8 2	0	0 2	0	5	81 43
Alabama: Birmingham	1	1	8	15	0	5	0	1	1	1	
Mobile Montgomery	0	0	1	1 2	ő	0	0	0 2	1 0	1 1 0	75 21 27

## City reports for week ended April 24, 1926—Continued

	Scarle	t fever		Small	pox		Tuber		ypheid f	lever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Case 10- porte	re	;-	culo- sis, death re-	Cases,	Cases re-	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST SOUTH CENTRAL												
Arkansas: Fort Smith Little Rock Louisjana:	1 0	1 4	0		3	0	2	0	0	0	1 0	
New Orleans Shreveport Oklahoma Oklaho ma	1	23 1	2 2	]		0	11 1	0	3 1	0	8 6	134 30
City Texas:	2	0	4	(	İ	0	0	0	0	0	0	23
Dallas Galveston Houston San Antonio	2 0 0 1	8 0 0 3	2 0 0 0	8 8 0	5	000	3 1 5 5	1 0 0	2 0 0 0	. 0 0 0	23 1 0 0	56 8 53 53
MOUNTAIN					l							
Montana: Billings Great Falls Helena Missoula	1 1 0 1	2 2 0 0	0 1 0 1	0		0000	. 0 0 1 0	0 0	0 0 0	0	1 10 0 0	5 6 5 4
Idaho: Boise	1	5	1	4		0	0	0	0	0	0	6
Colorado: Denver Pueblo	10	11	2	0		0	8 4	0	0	0	7 <u>4</u> 5	69 10
New Mexico: Albuquerque	0	a	0	. 0	1	0	5	0	0	0	7	16
Arizona: Phoenix		1		0		0	14		0	0	Đ	33
Utah: Salt Lake City	2	3	1	1		0	2	1	σ	0	83	26
Nevada: Reno	0	a	1	6		0	0	0	0	0	0	1
PACIFIC	1	İ	-			1						
Washington: Seattle Spokane Tacoma Oregon:	8 3 2	36 18 3	4 7 2	0 0 13		0	1	0 0 1	2 1 0	0	6 14 17	22
PortlandCalifornia:	7	28	9	3		0	6	0	2	0	2	77
Los Angeles Sacramento San Francisco .	16 1 13	16 5 19	3 0 3	26 3 10	1	2 0 1	20 4 16	1 1 1	3 2 0	0 0 0	4 0 2	218 18 153
			ebrospin eningiti		Leth encep	argi hali	ie tis	Pelle	igra.	Polior til	nyelitis e paralys	(infan- is)
Division, State, an	ad city	Case	es Des	aths	Cases	Di	eaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
NEW ENGLAS	D .				,							
Vermont: Burlington			0	0	. 0		0	0	. 1	0	0	0
Massachusetts: Boston			a	1	1		1	0	0	0	0	0
Worcester			I	0 ]	0	į	0 }	0	0	0	) 0	1 . 0

City reports for week ended April 24, 1926-Continued

	Cerebro	ospinal igitis	Leth encep		Pella	ngra.		nyelitis ( paralys	
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
MIDDLE ATLANTIC									
New York: New York	4	3	10	6	0	0	1	2	1
New Jersey:	0	0		1	0	0	0	0	0
Trenton Pennsylvania: Philadelphia	0	0	3	2	0	0	0	0	0
EAST NORTH CENTRAL									
Ohio: Cincinnati Cleveland	0	0	0	1 2	0	0	0	0	0
Illinois: Chicago	0	0	0	0	0	1	0	0	0
Michigan: Detroit	ł	1	0	1	0	o	0	0	0
Wiscorsin: Alilwaukee Supenor		0	0	0	0	0	0	1 0	1 0
WEST NORTH CENTRAL									
Missouri: St. Louis	3	1	0	0	0	0	0	0	0
SOUTH ATLANTIC					-		1		
Maryland: Baltimore	0	0	0	1	0	o	0	0	0
EAST SOUTH CENTRAL			l			1			
Alabama: Birmingham	. 0	0	0	0	1	0	0	0	0
WEST SOUTH CENTRAL			1	1		-	1		
Louisiana: Shreveport	. 0	1	. 0	0	0	1	0	0	0
Texas: Dallas	. 0	0	0	0	1	2	0	0	0
Pacific					1				
Washington: Spokane					0	0		0	
Oregon: Portland	į .	1	1		1	0	1 "	0	d
California: Los Angeles Sacramento	1					1		0	0
Sacramento San Francisco	- 0	0	i d			0	0	0	0

The following table gives the rates per 100,000 population for 103 cities for the five-week period ended April 24, 1926, compared with those for a like period ended April 25, 1925. The population figures used in computing the rates are approximate estimates as of July 1, 1925 and, 1926, respectively, authoritative figures for many of the cities not being available. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and more than 29,750,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, March 21 to April 24, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925 1

#### DIPHTHEDIA CAGE BAMES

	D	IPHTH	ERIA	CASE	RATE	es				
					Week e	nded-				-
	Mar. 28, 1925	Mar. 27, 1926	Apr. 4, 1925	Apr. 3, 1926	Apr. 11, 1925	Арг. 10, 1926	A pr. 18, 1925	A pr. 17, 1926	Apr. 25, 1925	Apr. 21, 1926
103 cities	2 162	³ 131	170	4 126	152	5 117	-155	6 110	155	118
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	115 230 104 239 90 53 114 129 2 170	139 142 101 146 8 62 2 39 155 255 240	165 240 86 213 77 21 79 120 356	80 145 7 112 156 96 5 61 60 146 202	161 219 91 219 69 32 101 102 163	125 125 88 200 86 121 60 118 137	125 227 103 163 96 42 70 231 160	86 6 247 90 47 30	139 217 106 181 102 37 75 259 157	73 162 87 178 63 25 47 82 146
		MEAS	LES C	ASE 1	RATES	1				
103 cities	2 489	3 1,837	537	1.695	510	³ 1,784	564	6 1,772	620	1, 790
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central West South Pacific	129	1, 347 1, 835 2, 088 2, 306 5 2,750 5 3, 096 125 310 453	198	1, 463 1, 847 7 1,503 2, 391 2, 671 5 3,063 43 555 248	975 677 858 56 196 32 48 55 229	1, 572 1, 769 1, 570 3, 240 2, 652 5 3,218 237 419 391	884 -811 681 88 242 89 62 259 146	1, 813 1, 699 1, 469 5 3,384 2, 943 2, 781 133 528 375	1, 174 779 833 98 278 173 35 213 193	1, 606 1, 593 1, 457 4, 079 2, 538 3, 145 163 1, 074
	SC.	ARLET	FEVI	er ca	SE RA	TES				
103 cities	² 403	3 325	394	1 296	353	5 274	329	4 306	348	283
New England. Middle Atlantic East North Contral West North Central. South Atlantic. East South Central West South Central West South Central Mountain. Pacific	404 449 731 157 263 97	355 210 407 889 8 156 5 149 146 209 288	515 434 412 713 165 242 48 268 182	392 210 331 774 175 221 86 146 251	510 358 391 627 144 257 84 250 166	319 176 330 833 147 176 116 100 156	338 341 376 631 157 210 57 305 138	373 187 343 6 904 182 -156- 133 173 340	.393 335 410 671 165 236 114 388 141	222 201 287 883 160 228 172 200 262
		SMAL	LPOX	CASE	RATE	s				
103 cities	2 56	z 38	55	+ 42	49	2 33	46	1 26	60	31
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	63 389 101 18	57 8 96 5 61 142 27	12 21 22 84 46 378 44 18 243	0 0 7 17 46 41 5 105 90 55 348	21 94 40 525 48 18	0 18 51 68 5 94 133 27	0 18 25 82 50 362 13	0 14 6 45 43 52 95	2 12 37 86 75 420 40 28 251	47 99 112 46

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1925, and 1925, respectively.
² Spokane, Wash.. not included.
² Norfolk, Va., and Covington, Ky., not included.
⁴ Madison, Wis., and Covington, Ky., not included.
⁴ Covington, Ky., not included.
⁵ St. Joseph, Mo., not included.
⁵ Madison, Wis., not included.
³ Norfolk, Va., not included.
³ Norfolk, Va., not included.

Summary of weekly reports from cities, March 21 to April 24, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925—Continued

TYPROID REVER CASE RATES

	TY	PHOII	) FEVI	ER CA	SE RA	TES				
					Week e	nded—				
	Mar. 28, 1925	Mar. 27, 1926	Apr. 4, 1925	Apr. 3, 1926	Apr. 11, 1925	Apr. 10, 1926	Apr. 18, 1925	Apr. 17, 1926	Apr. 25, 1925	A pr 21, 1926
103 cities	2 10	\$ 8	8	4 10	9	5 7	11	67	16	-8
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	12 7 3 6 12 53 40 0 2 26	0 10 4 2 8 16 5 17 9 27 13	5 4 3 2 29 16 31 0	7 8 7 3 8 17 8 33 34 36 11	2 9 6 2 19 16 35 18 8	9 5 3 10 6 4 11 17 18 13	7 11 4 2 12 32 53 37 11	9 7 2 6 4 4 0 34 9 13	17 14 6 6 13 74 48 28 22	26 26 26 22
	1	NFLUI	ENZA	DEATI	H RAT	ES		·		<u> </u>
96 cities	31	8 97	33	7 89	26	74	26	6 54	29	38
New England Middle Atlantie East North Central West North Central South Atlantie East South Central West South Central Wost South Central Mountain Pacific	29 22 38 44 12 79 34 37 47	69 111 104 38 8 82 254 123 64	34 21 36 38 27 63 34 176 25	109 100 7 110 38 58 99 109 27 21	31 16 25 36 25 68 44 83 11	83 76 81 31 58 239 71 46 14	26 24 23 49 10 74 10 37 25	52 59 67 6 24 43 47 57 46 21	29 17 31 47 40 79 24 74	40 34 42 31 30 104 66 46 46
and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	F	NEUN	IONIA	DEAT	H RAT	res	"			-
96 cities	197	§372	197	7 335	194	277	184	6 241	196	201
New England Middlo Atlantic - East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	232	430 493 351 159 8 330 477 175 191	242 214 171 186 219 247 160 157 142	468 432 7 321 159 289 358 198 155 57	204 189 178 220 223 315 160 259 105	359 338 245 184 235 431 170 137 149	199 203 178 165 217 189 92 203 87	303 288 232 6 134 207 382 194 155 117	180 222 199 131 180 263 150 213	234 240 191 136 205 259 137 109 71
2 Spokene, Wash, no	t inglu	i .	11	J	!!	AS+ Tos	enh. M	o not ir	hobulor	

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively

Group of cities	Number of cities reporting	Number of cities reporting	Aggregate of cities cases	population reporting	Afgregate population of cities reporting deaths		
	cases	deaths	1925	1926	1925	1926	
Total	103	96	29, 944, 996	30, 473, 129	29, 251, 658	29, 764, 201	
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	12 10 16 14 21 7 8 9	12 10 16 11 21 7 6 9	2, 176, 124 10, 346, 970 7, 481, 656 2, 504, 962 2, 716, 070 993, 103 1, 184, 057 563, 912 1, 888, 142	2, 206, 124 10, 476, 970 7, 655, 436 2, 634, 662 2, 776, 070 1, 004, 953 1, 212, 057 572, 773 1, 934, 084	2, 176, 124 10, 346, 970 7, 481, 656 2, 461, 380 2, 716, 070 993, 103 1, 078, 198 563, 912 1, 434, 245	2, 206, 124 10, 476, 970 7, 655, 436 2, 499, 036 2, 776, 070 1, 004, 953 1, 103, 695 572, 773 1, 469, 144	

Spokane, Wash., not included.
 Marfolk. Va. and Covington, Ky., not included.
 Madison, Wis., and Covington, Ky., not included.
 Covington, Ky., not included.

<sup>St. Joseph, Mo., not included.
Madison, Wis., not included.
Norfolk, Va., not included.</sup> 

#### FOREIGN AND INSULAR

#### THE FAR EAST

Report for week ended April 17, 1926.—The following report for the week ended April 17, 1926, was transmitted by the far eastern bureau of the health section of the League of Nations' secretariat, located at Singapore, to the headquarters at Geneva:

William with a security may be a second or the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of t	Pla	gue	Cho	olera		nall- oox		Pla	gue	Cho	lera		all-
Port	Cases	Deaths	Cases	Deaths	Cases	Deaths	Port	Cases	Deaths	Cases	Deaths	Cases	Deaths
Calcutta_Bombay. Madras. Rangoon Negapatam Oolombo Basra. Singapore Port Swettenham Penang. Batavia. Surabaya. Samarang Cheribon Belawan Deli Palembang Padang (Sumatra) Sabang (Rhio). Makassar Menada Banjermassin Balik-Papan Sandakan (North Borneo) Kuching (Sarawak). Timor Dilly Manila Hoilo Jolo Cebu Zamboanga Bangkok Saigon and Cholon Haphong Tourane Hongkong Shanghai Amoy Nagasaki Yokohama Simonoseki Moji Koble Osaka		044011000000000000000000000000000000000	001100000000000000000000000000000000000	460060000000000000000000000000000000000	50 24 8 1 1 1 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1	35 14 1 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Niigata Isuruga Hakodate Keelung (Formosa) Fusan Chemulpo Dairen Mukden Changehun Adelaide Brisbane Fremantle Meibourne Sydney Rockhampion Townsville Port Darwin Broome Port Moresby Auckland Wellington Christchurch Invercargill Noumea (New Caledonia) Honolulu Suez Tor (quarantine station) Alexandria Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Port Said Nassowah Dibuti Berbera Mozambique Lourenco Marques Durban East London Port Elizabeth Cape Town Port Louis (Mauritius)	000000000000000000000000000000000000000			000000000000000000000000000000000000000	000000832000000000000000000000000000000	000000000000000000000000000000000000000

#### AZORES

Smallpox (reported as alastrim)—Island of Fayal—February 22—April 11, 1926.—Smallpox, reported as alastrim, was reported present in the island of Fayal, Azores. Statistics were not available but prevalence in the town of Horta was stated to be diminishing.

#### CANADA

Communicable diseases—Week ended April 24, 1926.—The following table shows the number of certain communicable diseases reported in seven provinces of Canada during the week ended April 3, 1926. The information was supplied by the Canadian Ministry of Health.

Disease	Nova Scotia	New Bruns- wick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	Total
Influenza Smallpox Typhoid fever	189		7	19 5	1 5	14	i	190 39 12

Communicable diseases—Ontario—March 27-April 24, 1926—Comparative.—During the four-week period ended April 24, 1926, communicable diseases were reported in the Province of Ontario, Canada, as follows:

Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Cases   Case	1, 1926	April	Apri	1, 1925
Chicken por	Deaths	Cases	Cases	Deaths
Smellpor       52         Syphilis       52         Syphilis       171         Typhold fever       23         Whooping cough       255	12 164 1 7 319 7	395 122 361 78 1,880 158 526 526 171 23	2 4 322 182 6 88 4 1,643 848 15 12 119 142 26 355 355	2 2 36 3 2 2 203 8 2 2 10 0

#### CZECHOSLOVAKIA

Communicable diseases—October-December, 1925.—During the three months ended December 31, 1925, communicable diseases were reported in Czechoslovakia as follows:

Disease	Cases	Deaths	Provinces showing greatest number of cases and deaths
Anthrax Cerebrospinal meningitis Diphtheria Dysentery Maiaria Paratyphoid fever B Puerperal fever Scariet fever Trachoma Typhoid fever Typhus fever	6 23 1, 504 87 20 21 143 4, 898 823 1, 972 146	2 9 133 8 72 84 154	Bohemia: Cases, 3; deaths, 2. Bohemia: Cases, 8; deaths, 5. Bohemia: Cases, 44; deaths, 79. Siovakia: Cases, 44; deaths, 4. Russinia: Cases, 19. Bohemia: Cases, 20, Bohemia: Cases, 20, Bohemia: Cases, 2773; deaths, 30. Slovakia: Cases, 377. Slovakia: Cases, 31; deaths, 44. Russinia: Cases, 136.

959

#### ECHADOR

Plague-Ambato-March 31, 1926.-Under date of March 31, 1926, plague was reported present at Ambato, Ecuador, with a number of cases and five deaths. The town is situated on the Guayaquil and Quito Railroad, in the mountain region of Ecuador and less than 100 miles from Quito. It is stated to be the center of the fruit producing region in the highlands of Ecuador.

Plague previously reported present.—Plague was reported present at Ambato, in October, 1923, with 8 cases, 4 deaths.

#### GUADELOUPE (WEST INDIES)

Smallpox (alastrim).—Under date of April 23, 1926, smallpox (alastrim) was reported present in the Island of Guadeloupe, French West Indies.

#### **JAMAICA**

Smallpox (alastrim)—February 28-March 20, 1926.2—During the period February 28 to March 20, 1926, 99 cases of smallpox, reported as alastrim, were notified in the Island of Jamaica, outside of Kingston; 29 cases were notified during the same period in Kingston.

-Other communicable diseases.—During the same period other diseases were reported as follows: Chicken pox, 28 cases; puerperal fever, one case; tuberculosis (pulmonary), 26 cases; typhoid fever, 33 cases: occurring outside of Kingston.

#### LATVIA

Communicable diseases-January, 1926.-During the month of January, 1926, communicable diseases were reported in the Republic of Latvia as follows:

Disease	Cases	Disease	Cases
Diphtheris Dysentery Frysipelas Measles Mumps	8	Paratyphoid fever Puerperal fever Scarlet fever Typhoid fever Whooping cough	344

Population, 1,844,805.

#### MALTA

Communicable diseases-March, 1926.-During the month of March, 1926, communicable diseases were reported in the island of Malta as follows:

Disease	Cases	Disèase	Cases
Broncho-pneumonia. Chicken pox Diphtheria. Erysipelus Lethargic encephalitis. Malaria.	25 6	Malta fever Measles Pneumonia Scarlet fever Trachoma Tuberculosis	154 6 3

Population, civil, estimated: 223,088.

¹ Public Health Reports, Dec. 31, 1923, p. 3098. ² Received out of date. See Public Health Reports, Mar. 26, 1926, p. 594.

Smallpox—October 1, 1925-March 15, 1926.—During the period from October 1, 1925, to March 15, 1926, 79 cases of smallpox.were reported in the Island of Malta.

#### UNION OF SOUTH AFRICA

Plague—Orange Free State—March 14-20, 1926.—During the week ended March 20, 1926, four cases of plague were reported in the Orange Free State, Union of South Africa, of which one case was in a European. During the same period five deaths from plague were reported, of which three were of cases previously reported (European, two; native, one case). Infection by contact with previous cases was indicated. For distribution of occurrence by locality see below.

#### CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

#### Reports Received During Week Ended May 14, 1926 1

#### **CHOLERA**

Place	Date	Cases	Deaths	Remarks
India: Calcutia. Madras. Philippine Islands: Province—	Mar. 14–27. Mar. 27–Apr. 3	106 4	88 4	,
Province— Pampanga	Feb. 28-Mar. 3	1	1	

#### PLAGUE

Azores: St. Michael's	Mar. 21-Apr. 3	4	2	At Lagoa and Arrifes, outskirts of town, 3 to 7 miles distant.
Ecuador: Ambato	Mar. 31		5	Previously reported present in October, 1923, with 8 cases, 4 deaths.
India: Karachi Madras (Presidency)	Mar. 28-Apr. 3 Mar. 7-13	4 85	2 51	
Siam: Bangkok Union of South Africa: Orange Free State	Mar. 14-20	3	2	Mar. 14-20, 1926: Cases, 4; deaths,
Kroonstad District	Mar. 14-20	1 8	2	5, of which 2 deaths were of Europeans and one native, previously reported as cases, Mar. 7-13, 1926. European.
Winburg District	do	8	2	Native.

¹ From medical officers of the Public Health Service, American consuls, and other sources.

#### Reports Received During Week Ended May 14, 1926-Continued

#### SMALLPOX

Place	Date	Cases	Deaths	Remarks		
Azores:	71.1 00 1 11					
Island of Fayal Brazil:	Feb. 22-Apr. 11			Present. Reported as alastrim.		
Rio de Janeiro	Feb. 21-Mar. 20	129	67	June 27, 1925-Mar. 20, 1926; Cases, 1,089; deaths, 580.		
Canada: Province—	:			Cases, 1,000, tienins, 500.		
Ontario				Mar. 27-Apr. 24, 1926: Cases, 52-		
	Apr. 11–17	1		Corresponding period, 1925 Cases, 12.		
China: Chungking	Mar 21-27			Present.		
Foochow.	Mar. 7-20			Do.		
Hongkong	Mar. 14-20	2				
Fushun	Mar. 20-31	1				
Liao-Yang	do	2		Decemb		
Nanking Swatow	Mar. 28-Apr. 10 Mar. 28-Apr. 3					
Egypt:				opotadie.		
Cairo	Dec. 25-31	14				
Do	Jan. 1-7	3				
Guadeloupe (West Indies)				Apr. 23, 1926: Present. Alas trim.		
India: Bombay	3/fam 14 00	27	9			
Calcutta	Mar. 14-27	91	58 58			
Karachi.	Mar 28-Apr 3	8	3			
Madras	do		ĭ	•		
Irag:			_			
Bagdad Jamaica		1	1	Feb. 28-Mar. 20, 1926: Cases, 99;		
Kingston Japan:	Feb. 28-Mar. 20	29		outside of Kingston.		
Kobe Yokohama	Mar. 14-20 Mar. 14-27	13	1	To Mar. 27, 1926: Cases, 48;		
Malta				deaths, 6. Oct. 1, 1925-Mar. 15, 1926 : Cases		
Mexico:				79.		
Aguascalientes Guadalajara	Apr. 11-17		1			
Guadalajara	Apr. 13-19 Apr. 4-10 Apr. 18-24		1	Including municipalities in Fed-		
Mexico City San Luis Potosi	Apr. 4-10	Z	4	eral District		
Persia:	arpis itt átasassas	~	•	Care and the care		
Teheran			29	•		
Bangkok Spain:	Mar. 14-20	8	7			
Valencia Trinidad	Apr. 11-17	2		Mar. 21-Apr. 3, 1926: Cases, 4.		
TYPHUS FEVER						
Chile:		_				
Antofagasta	-		1			
Mexico City	Mar. 28-Apr. 10	11		Including municipalities in Federal District.		
Palestine: Ekron	Mar. 30-Apr. 5	1				
Perii:		į				
Arequipa	Mar. 1-31		1			

#### Reports Received from December 26, 1925, to May 7, 1926 1

#### CHOLERA

Place	Date	Cases	Deaths	Remarks
Ohosen	October-Novem-	12	5	•
French Settlements in India	ber, 1925. Dec. 1-31	880	712	Oct 10 1005 to Tan 0 1006.
India	Nov. 1-28	101	89	Oct. 18, 1925, to Jan. 2, 1926; Cases, 21,316; deaths, 12,371. Jan. 3-Feb. 6, 1926; Cases,
Do	Dec. 6-26	1/1	54	Jan. 3-Feb. 6. 1926: ('ases.
Do	Dec 97-Ian 18		41	17,858; deaths, 10,050.
Do	Jan. 24-Mar. 13 Nov. 15-Jan. 2 Jan. 3-Mar. 27 Nov. 8-Dec. 5	321	200	,,,,,
Madras	Nov. 15-Jan. 2	174	70	
Do	Jan. 3-Mar. 27	140	85	
Rangoon	Nov. 8-Dec. 5	4	4	
Do	Jan. 24-Mar. 20	9	6	
ndo-China				September-December, 1925
Province-	Q 1 00		!	Cases, 11; deaths, 7.
Annam	Sept. 1-30	2	2	
Cambodia	Dec 1-31 Sept. 1-Dec. 31	2	1	
Cochin China	Sept. 1- Dec. 31	6 2	4 2	Inchesing 100 gazaga bilamatan
Saigon	Jan. 4-17 Sept 1-Nov. 30	3	-	Including 100 square kilometer
Tonkin	Aug. 30-Oct. 17	409		of surrounding country.
Do	Oct. 25-Dec. 26	113		
Philippine Islands:	Oct. 20-13ec. 20	110		
Manila	Nov. 9-Jan. 3	15	10	
D0	Jan. 4-Mar. 6	3	27	
Province-	, , , , , , , , , , , , , , , , , , , ,	•	-`	
Bataan	Nov. 30-Dec. 26	29	25	
Do	Jan. 2-16	1	1	
Batangas	lian 24- Fan 20	13	13	
Bohol	Jan. 23-30	1	1	
Bulacan	Oct. 18-Nov. 7	92	64	
Do	Jan. 23-30 Oct. 18-Nov. 7 Nov. 23-Dec. 31 Jan. 2-30	200	88	
_ Do	Jan. 2-30	6	6	
Laguna	Nov. 23-Dec. 20	. 18	14	
Do	Jan. 24-Feb. 6	5 2	6 2	
Leyte	Jan. 3-9		30	
Mindoro	Dec. 20-31 Nov. 30-Dec. 13	7	5	
Nueva Ecija Pampanga	Nov 1-7	li	ı	
Do		113	85	•
Do	Jan. 2-Feb. 20	38	34	
Rizal	Sept. 27-Nov. 21.	75	21	
Do.		14	11	
Do	Jan. 3-Feb. 20	89	30	
Romblon.	Nov. 8-Dec. 13	.) 27	14	
Russia	May-June	. 7		
Do	July-August	. 4		
Siam:	1	1	1	1
Bungkok	Oct. 4-Nov. 14	108	68	
Do	Nov. 22-Dec. 26	270	149	1
Do	Dec. 27-Mar. 13	398	275	
On vessel: Steamship	Oct. 3	. 9		Arrived at Bangkok, Sian Cases in cooling assengers.
	PL	AGUE	<u>}</u>	
			1	
Argentina Buenos Aires				Jan. 24-30, 1926: 6 cases, occurring in interior Provinces
Buenos Aires	Jan. 24-30	. 1		ring in interior Provinces
Azores:	Ton 17 00	] .	1 -	Salta and Santa Fe.
St. Michaels	Jan. 17-30		2	To outsirinte of the of Ton
Do	Feb. 7-13	. 1		In outskirts of city of Pont
Belgium:	1	1	1	Delgada.
Vilvorde	Dag 1-9	. 1	1	1
	Dec. 1-8	1 1	1	
Provide				
Brazil:	Nov S-Dec 98	2	7	
Brazil: Babia	Nov. 8-Dec. 28 Dec. 27-Jan. 30	3 4	1 2	
Brazil:	Dec 27-Jan. 30	3 4	1 2 2 1	

¹ From medical officers of the Public Health Service, American consuls, and other sources.

#### Reports Received from December 26, 1925, to May 7, 1926-Continued

#### PLAGUE-Continued

Place	Date	Cases	Deaths	Remarks
British East Africa:				
Kenya-	Mary 00 Dag E	1	2	
Kisumu Do	Nov. 22-Dec. 5 Jan. 31-Feb. 27	4	3	
Uganda Protectorate	Sept. 1-Dec. 31	468	426	
Canary Islands:	20pm 1 2000 011111	100		
La Laguna	Dec. 24	3	2	
Las Palmas	Jan. 7 Dec. 18-27	1		
Do Santa Cruz de Tenerife	Jan. 7	1	1	
Santa Cruz de Tenerile	Dec. 18-27 Dec. 28-Feb. 1	8		
DoCelebes:	Dec. 20-rep. 1			
Makassar	Dec. 29-Feb. 2	12	12	Netherlands East Indies.
Cevlon:				
Colombo	Nov. 15-Dec. 5	3	3	1 plague rodent.
<u>D</u> 0	Dec. 27-Jan. 16	2	2	73-1 14 00 1000: Mana alama
Do	Jan. 24-Mar. 6	5	5	Feb. 14-20, 1926: Two plague rodents.
China:				711
Nanking	Nov. 15-Mar. 27			Prevalent.
Ecuador.	Jan. 1-15	1		
Eloy AlfaroGuayaquil	May 1-Dec 31	31	12	Rats taken, Nov. 1-Dec. 31, 1925,
Do	Nov. 1-Dec. 31 Jan.1 -Mar. 31	62	27	49,370; rats found infected, 281.
DV	0 mm, 1 mm, 011111			Rats taken, Jan. 1-Mar. 31,
		1		1926, 64,002; rats found infected,
Recrea (country estate)	Jan. 1-Mar. 15	1		543.
Egypt				Jan. 1-Dec. 9, 1925: Cases, 138.
Alexandria	Mar. 10-18 Nov. 18 Dec. 3-9	2	1	
Beni Suef	Nov. 18	1	1	•
Fayoum ProvinceGharbia Province	Mar. 9-30	5	1 3	
Mina Province	Mar. 4	1	1	
Suez	Mar. 27	ī	ī	•
Greece:				
Athens	Nov. 1-30	18	4	Including Piræus.
Do	Jan. 1-Mar. 31	25	4	O 1-3 3 C 4
Herakleion	Feb. 4	1 4	1	On island of Crete.
Patras	Nov. 13-Dec. 12 Feb. 2	-	1	1 plague-infected rodent found
Hawaii Territory Hawaii—	F CO. 4			near Hamakua Mill Co.
Kakuihaele	Mar. 19	1	1	
Honokaa.	Mar. 19 Mar. 16	2	ļ	1 death suspected plague.
Paaulo				Jan. 29, 1926: Plague-infected rat
				lound in vicinity.
India	The 6 10	1	1	Corne 15 197 doothe 10 677
Bombay Do	Ion 2-Feb 20		8	Jan 3-Feb. 6, 1926; Cases.
Do	Mar. 7-13	4	2	found in vicinity. Oct. 18, 1925, to Jan. 2, 1926; Cases, 15,135; deaths, 10,677. Jan. 3-Feb. 6, 1926; Cases, 17,402, deaths, 13,598.
Calcutta	Dec. 6-12. Jan. 3-Feb. 20. Mar. 7-13. Dec. 6-12.		1	1
Karachi	Nov. 1-Dec. 19 Feb. 21-Mar. 6 Oct. 25-Nov. 7	4	3	1
Do	Feb. 21-Mar. 6	3	3	,
Madras Presidency	Oct. 25-Nov. 7	75	41	1
Do	Nov. 15-21	35	22	}
Do	Dec. 20-26 Jan. 3-Feb. 20	108	64 617	1
Do	Feb. 20-Mar. 6	971	64	ì
DoRangoon	Oct. 25-Dec. 26	23	15	
Do	Oct. 25-Dec. 26 Dec. 27-Mar 20	93	83	1
Indo-China				September-December, 1925: Cases
Province	1			28; deaths, 26.
Cambodia Cochin China	Sept. I-Nov. 30	13	13	
Coehin China	Sept. 1-Dec. 31	15	13	
Iraq:	Dec. 13-Jan. 2	7	3	
Bagdad Do		75	44	
Java.	. van. 10-241m. 10	1 "	772	
Batavia	Oct. 24-Nov. 6	. 94	89	Province.
Do	Nov. 14-Jan. 1	315	297	
Do	Jan. 2-Mar. 12	483	468	
Cheribon	.  Sept. 27-Oct. 17		166	
Do	Nov. 15-Dec. 26		198	į.
Do	Jan. 3-Feb. 6	-1	.} 8	1

### Reports Received from December 26, 1925, to May 7, 1926—Continued

#### PLAGUE-Continued

Place	Date	Cases	Deaths	Remarks
Java-Continued.	Oct. 20-Nov. 9			Epidemic in 1 locality.
Djokjakarta Keduri.	Dec 7			Do.
Koenigan	Dec. 7		114	D0.
Pekalongan	Sept. 27-Oct. 17-		42	
Do	Zov. 8-Dec. 26		252	
Probolinggo	Feb. 12			Epidemic. Port.
Rembang				Do.
Surabaya	Oct. 11-Dec. 26 Dec. 27-Feb. 27 Sept. 27-Oct. 17 Nov. 8-Dec. 26	59	59	
Do	Dec. 27-Feb. 27	40	40	
Tegal	Sept. 27-Oct. 17	6	6	
Do	Nov. 8-Dec. 26		31	AT TO
Madagascar				Nov. 1-December, 1925: Cases, 632; deaths, 593. Jan. 1-31, 1926: Cases, 611; deaths, 565.
Province— Ambositra	Dec 16 91	9	7	100ct Comp City double for
			2	1920: Cases, 611; deaths, 505.
Do Fort Dauphin	Sept. 16-30		3	
Do	Jan. 16-Feb. 15		2	
Itasy	Sent 16-Oct 30	20	20	
Do	Sept 16-Oct. 30 Nov. 16-Dec. 31	34	34	
Do	Jan. 4-15	29	29	
Do	Reh 1-15	29	29 29	
Moramanga	Sept. 16-Dec. 31	49	48	
Do	Jan. 1-Feb. 28	46	44	
Tananarive				Sept. 16-Nov. 30, 1925: Cases, 368; deaths, 341. Dec. 16-31, 1925: Cases, 152; deaths, 143. Jan. 1-Feb. 28, 1926: Cases, 480;
Town-				368; deaths, 341. Dec. 16-31,
Tamatave (Port)	Sept. 16-Nov. 30	12	11	1925: Cases, 152; deaths, 143.
Do	Feb. 1-15	4	2 2	Jan. 1-Feb. 28, 1926: Cases, 480;
Tananarive	Sept. 16-30	2		deaths, 407.
Do	Nov. 1-30 Jan. 1-Feb. 28 Sopt. 20-Dec. 26	11	11	
Do	Jan. 1-Feb. 28	19	19	
Mauritius Island	Sept. 20-Dec. 26	21	18 2	
Pomplem avegan	Dec. 1-31 Oct. 1-Nov. 30	3	2	
Pamplemousses Port Louis	Oct. 1-Nov. 30	12	9	
Rivière du Rempart.	October	13 2	9	
Nigeria	Aug. 1-Nov. 30	559	419	
Persia:	12ug. 1-1101. 00	1 000	410	
Teheran	Oct. 21-Nov. 21	ł	12	
Peru				January, February, 1926: Cases,
	ł	1		290; deaths, 111.
Huacho	Jan. 26	15		Port 60 miles north of Callao.
Lima	Jan. 1-31	20		In hospital. Some cases in Prov-
	1 _	1		ince.
Mollendo	. do			12 or 15 cases reported unoffi-
Visanta	35		1	cially.
Russia	May-June	67		
Do	July-October	166		
Senegal	September-Octo- ber.	45	25	
Siam	Aug 22-Tion 26	65	53	
Rangkok	Aug. 23-Dec. 26 Nov. 15-28	3	3	1
Bangkok Do	Jan. 3-30	38	33	1
130	Feb. 7-20	6	5	
Do	Feb. 28-Mar. 13	5		i
Straits Settlements:				
Singapore	Nov. 1-Dec. 5	. 8	8	1
Do	Jan. 3-9	. 2	2	
Syria:	[	1	1	İ
Beirut	Nov 11-20	1		ł
Do	Jan. 21-31	.] 1		3.5 3.40 5000 Clare C. Thurs
Union of South Africa		.		Mar. 7-13, 1926. Cases, 3; Euro-
Cape Province—	Dec 19 10	1 .	1	pean, 2
Kimberley district	Dec. 13-19	1 1		European
Middleburg district	Dec. 6-12	1		European On form
Steynsburg district	Nov. 15-21 Feb. 21-27	1 1		Native. On farm.
Winburg district Orange Free State	Feb. 21-2/	. 1		
Boshof district	Nov 20-Dag =	. 1	1	In native
Bothsville dietrict	Dec. 6-12	i i	1 1	Native. On farm.
Bothsville district Hoopstad	Nov. 29-Dec. 5 Dec. 6-12 Mar. 7-13	i		European.
Winburg.	do	2		On farms.
	,		,	

#### Reports Received from December 26, 1925, to May 7, 1926—Continued

#### PLAGUE-Continued

Place	Date	Cases	Deaths	Remarks
On vessel: Steamship Cid				Plague rat. Jan. 29, 1926. At Buenaventura, Colombia. Rat was killed while jumping ashore from vessel.
•	SMAL	LPOX		
Algeria: Algiers Do. Do. Arabia: Aden Do.	Nov. 21-Dec. 31 Jan. 1-10 Jan 21-Mar. 20 Nov. 29-Dec. 5 Jan. 10-Mar. 6	177 64 72 1 10	1	Imported.
Argentina: Rosario Australia: Queensland— Brisbane Bahamas	October Dec. 9-15 Feb. 23	1	1	In Nassau district. Stated to
Brazil:  Manaos.  Do.  Para.  Rio de Janeiro.  Do.	Dec. 1-31 Jan. 31-Feb. 20 Jan. 10-Mar. 6 Nov. 1-28 Dec. 6-26 Dec. 27-Feb. 20	28 134 65	12 6 6 72 26	have been imported.
Do	Nov. 15-Dec. 19 Dec. 27-Jan. 2 Sept. 1-Oct. 31	195 14 1 8	131 6 4	From mainland.
Northern Rhodesia Southern Rhodesia Canada	Jan. 5–11 Nov. 13–Dec. 23	2 3		Sept. 13-Jan. 2 [.] In 7 Provinces, 186 cases. Jan. 3-Feb. 27, 1926: Cases, 277.
AlbertaCalgaryBritish Columbia— VancouverVictoria	Dec. 13-19	1 2 2		Jan. 3-Apr. 17, 1926: Cases, 61. From Drumbeller, vicinity of Calgary.
Manitola	Dec. 13-19	2 16 1	1	Jan. 3-Apr. 17, 1926. Cases, 52.
Ontario	Jan. 1-Feb. 1 Feb. 1-28	16 6 7		Dec. 1-31, 1925: Cases, 32. Jan. 3-Apr. 17, 1926: Cases 224. Township. Do. Do.
Wilmot Belleville Kingston Kitchener	do do Mar. 8-14do	6 4 1 26 7		Do.
North Bay	Jan. 3-Feb. 6. Mar. 14-Apr. 17. Dec. 27-Jan. 2. Jan. 3-Mar. 20.	2 4		
Saskatchewan Moose Jaw Regina Saskatoon Ceylon:	Jan. 3-Mar. 20 Jan. 24-Mar. 13 Feb. 14-20	2 3 1		Jan. 3-Apr. 17, 1926: Cases, 107
Colombo	Dec. 6-12 Jan. 3-Feb 6	_ 1 5		Port case.

# Reports Received from December 26, 1925, to May 7, 1926—Continued SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
Chîle:				
Punta Arenas	Dec. 13-26 Dec. 27-Jan. 2		8	
Chi na Amoy	Oct. 25-Dec. 19		1	
Do	Jan. 10-Mar. 20		16	
Antung.	Dec. 7-20	2		70
Changsha	Feb. 21-27			Present. Do.
Chungking	Nov. 15-27 Feb. 28-Mar. 20 Nov. 1-Feb 20			Do.
DoFoochow	Nov. 1-Feb 20			Do.
Hankow.	Nov. 14-Dec. 26 Jan 10-Mar. 6	4 3		
Do Hongkong	Nov. 22-Dec. 26	4		
Do	Nov. 22-Dec. 26 Jan. 3-Mar. 13	11	5	
Manchuria— An-shan	Dag 6 19	1		
Do	Dec. 6-12 Jan. 10-Mar. 20	9		
Changchun	do	21		
Dairen	Oct. 19-Dec. 27	73	15 24	
DoFushun	Jec. 28-1918r. 7 Ian 17-Mar. 20	77 2	24	
Harbin	Dec. 28-Mar. 7 Jan. 17-Mar. 20 Jan. 1-Mar. 18	10		
Kai-yuan	Jan. 10-30	4		
Kungchuling Lio-yang	Jan. 31-Feb. 20 Jan. 17-Mar. 20	2		
Mukden	Oct. 24-Nov. 15	1		•
DoSuping Kai Tieh-ling	Oct. 24-Nov. 15 Jan. 24-Feb. 27	4		
Suping Kar	Mar. 14-20 Oct. 26-Nov. 15	1 2		
Nanking.	Nov. 21-Dec. 26	2		Do.
120	Dec. 27-Mar. 27			D ₀ .
Shanghai. Do	Oct. 25-Jan. 2	37	36	Conce foreign auto
Swotow	Nov. 22-Mar. 20	56	131	Cases, foreign only. Prevalent.
Swatow Tientsin	Nov. 21-Dec. 26. Dec. 27-Mar. 27 Oct. 25-Jan. 2 Jan. 3-Mar, 13 Nov. 22-Mar. 20 Nov. 1-Dec. 19.	ž		2.010
Do	Jan. 23-Feb. 27	2		
Chosen: Seishin	Jan. 1-Feb. 28	48	27	
Roynt.	ł	1		į.
Alexandria.	Dec. 3-31	5 2	2	
Do	Jan. 8-14 Jan. 29-Mar. 4	22	1 6	
Do Port Said	Feb. 26-Mar. 4	1		
Esthenia			-	November, 1925: Cases, 3.
Llavre	Jan. 25-31		9	November, 1925: Cases, 3. September-December, 1925: Cases, 253
Paris	Mar. 1-20	. 9	1	
Gold Coast	September, De-	58	5	
Great Britain:	cember.			
England and Wales				Nov. 15-Dec. 26, 1925; Cases, 790
Hull Do	Dec. 27-Jan. 23 Feb. 7-Mar. 27	29		Dec. 27-Apr. 10, 1926; Cases 3,801.
Leeds	Jan. 14-Feb. 6	. 4		5,001.
London	Jan. 31-Feb. 6	.1	. 1	
Newcastle-on-Tyne Do	Nov. 29-Dec. 19. Dec. 27-Apr. 10.	6 40	1	
Nottingham	Nov. 22-Dec. 26	.1 9	1	
Do. Sheffield	Dec. 27-Mar. 13.	. 6		
	Nov. 22-Dec. 12.	7 3		,
Do	Dec. 20-26 Dec. 27-Mar. 20	. 18		
Do	Feb. 9			Reported present in severe form.
Greece Athens	Nov. 1-Dec. 31	18	-}	Oct. 1-31, 1925: Cases, 16,
Do.	Jan. 1-Mar. 31	87	1 6	
Kalamata	. Mar. 1-7	i		From Patras.
Seloniki India	Feb. 16-Mar. 15		. 2	Oot 19 Dog 98 1095 C
Bombay.	Nov. 8-Dec. 26.	26	20	Oct. 18-Dec. 26, 1925: Cases, 19,472; deaths, 4,440. Dec. 27,
Do	Dec. 27-Mar. 13.	200	113	1925-Feb. 6, 1926: Cases, 36,335;
Calcutta_	Nov. 8-Dec. 26 Dec. 27-Mar. 13	48	25	deaths, 11,491.

## Reports Received from December 26, 1925, to May 7, 1926—Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
India—Continued.	N 10'	23		•
Koracm	Nov. 1-21 Nov. 29-Dec. 5	4	2	
Do	Dec. 13-19	3		
	Dec. 13-19 Dec. 29-Mar. 27	94	29 5	
34 - 3	Nov. 15-Dec. 26 Dec. 27-Mar. 27 Oct. 25-Nov. 28	17 121	22	
DoRangoon	Dec. 27-19181. 27	3		
Rangoon	Dec. 6-26	4	1	
Do	Dec. 6-26	13	1 17	
Do	Jan. 24-Mar. 6	<b>_7</b> 0	17	September-November, 1925:
Indo-China				Cases, 346; deaths, 86.
Province— Annam	Sept. 1-Dec 31	232	44	
Combadia	do	84 106	34 51	
Cochin China.	do	100	î	and the same of come?
Saigon	Ian. 1-Mar. 7	11	1	Including 100 kilometers of sur
Tonkin	Sept. 1-Dec. 31	153	2	1
Irag.	1	19	15	Sept. 6-Oct. 17, 1925: Cases, 81;
Bagdad	Nov. 1-Dec. 26 Dec. 27-Feb. 27	19	10	deaths, 40.
Do	Dec. 27-Feb. 27do	52		. 1
Basra			·i	Aug. 2, 1925-Jan. 2, 1926: Cases, 52. Jan. 3-16, 1926: Cases, 12.
Catania	Pen. 10-20	- 1	1 ,	02. gan. 0 10, 1020, 5
		i		
RomeJamaica	UC6. 12-20	]		Nov. 29-Dec. 26, 1925; Cases, 95. Dec. 27, 1925-Feb. 27, 1926; Cases, 260. Mar. 21-Apr. 3, 1926; Cases, 66. Reported as
Jamaica		1	1	Cores 260 Mar. 21-Apr. 3,
		1		1926; Cases, 66. Reported as
		1		i susstini.
	Nov. 29-Dec. 26.	43		Reported as alastrim.
Kingston Do	Dec. 27-Jan. 30	48		Do.
Do	Mar. 21-27			Do.
Terron:	4			
Nagasaki	Nov. 11-Dec. 10-		3	
Taiwan Yokohama	Dec. 14-20	1	ļ }	5
Do	Feb. 23-Mar. 14-	4	'	<b>~</b>
Tava:	Oct 24-Dec. 25-		8	
Batavia	Feb. 20-Mar. 5.		5	
			2	
				1
Do Kraksoan	Oct. 11-17		1	
Malang	Oct. 11-Dec. 26.		2	
110	Dec. 27-Jan. 16.		3 4	2
Morth Roniam	Oct. 4-11	1	1	
Pekalongan Pontianak	Inn. 31-Feb. 6			1
Probolinggo	Jan. 31-Feb. 6 Oct. 11-17		1	
Gauth Rantam	do	1	33	04
Surabaya Do	Oct. 11-Dec. 26 Dec. 27-Feb. 13	1	31	40
Do	Oct. 4-10		9	December, 1925: Cases, 3.
TegalLatvia			==-	3 December, 1823. Casas, a
Malta	Nov. 1-Dec. 21.		21	
Do	Jan. 1-Feb. 28.		20	July-September, 1925: Deaths
Mexico Aguascalientes	Dec. 13-Jan. 2.		4	3 1,157.
Aguascalientes Do				
Do	Feb. 14-Mar. 2	1		12
Durango				1 2
Da	Jan. 1-31 Dec 27-4 pr. 6.			16 Including municipalities in Fed
Guadalajara	Dec. 27-Apr. 6. Nov. 28-Dec. 5		1	eral District.
-	Jan. 3-Mar. 27		7	Do.
DoSaltillo	Apr. 4-10		1	
Con Taris Potosi	Jan. 17-Mar. 2	U	-15	53 14
Do	Mar. 28-Apr.		15	1
Do Tampico	Dec. 21-Jan. 2 Jan. 2-Mar. 10		8	
Do Terreon	Nov. 1-Dec. 3	1		51
			1	65 1
Do	Jan. 1-Mar. 31 Mar. 29-Apr.		5	1

#### Reports Received from December 26, 1925, to May 7, 1926—Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Netheriands:				
The Hague	Jan. 30-Mar. 6	2	1	
Nigeria				August-November, 1925: Cases, 347; deaths, 6.
Palestine:				547, Gentus, 6.
Hebron.	Jan. 26-Feb.1	2		
Tiberias	Feb. 9-15	1		
Persia:				
Teheran.	July 23-Dec. 22 Dec. 23-Jan 20		775	
Do	Dec. 23-Jan 20		70	
Peru:			_	
Arequipa	Oct. 1-Dec. 31		2	N
Poland				Nov. 1-28, 1925: Cases, 9. Jan. 1-
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s				16, 1926 Cases, 4.
Portugal	Oot 4 21	124		Mar. 1-28, 1926; Deaths, 6.
LisbonDo	Oct 4-31 Nov. 16-Dec 27	124	60	
Do	Nov. 14-Dec. 26	187	00	
Do	Dec. 27-Mar. 27	116	29	•
Oporto-	Nov. 22-Dec. 19	2	3	
Do	Nov. 22-Dec. 19 Dec. 27-Mar 6	3	í	
Rumania.	August-October	š		
Russia				May-June, 1925: Cases, 2,333.
Do	July-October	1,563		,,
Siam				July 12-Sept. 5, 1925: Cases, 21
Bangkok	Dec. 20-25	3	1	deaths, 6.
Do	Dec. 26-Mar. 6	81	37	•
Sierra Leone: Konno district	Dec. 16-31	5		•
Spain.				
Madrid	Year 1925		18	
Do	Jan. 1-31		1	
Malaga	Nov 29-Dec. 5 Dec. 27-Jan. 2 Dec. 20-26 Dec. 27-Jan. 2		2	•
Do	Dec. 27-Jan. 2		1	
Valencia.	Dec. 20-20	1		•
Do	Jan. 10-Feb. 6	9	1	
Do	Feb. 14-Apr 10	9		
Straits Settlements:	200.14-11pt 10			
Penang	Mar. 28-Apr. 3		1	~
Singapore	Dec. 20-26	1	1	1
Do.	Jan. 10-16	2	1	į
Sumatra:	· ·	1		
Medan	Feb. 14-27	2		
Switzerland				June 28-Nov. 21, 1925: Cases, 62
Lucerne	Oct. 1-Nov. 30	8		
Do	Jan. 1-31	5		Cases, 37.
Zurich Trinidad (West Indies):	Dec. 27-Jan. 2	1		
Port of Spain	Jan. 1-Mar. 20	. 8		.}
Tunisia:		1	1	j I
Tunis	Nov. 21-30	2		
Do	Dec. 11-31	10		}
Union of South Africa:	Jan. 1-Feb 20	1		•
Cape Province	Jan. 17-23			Outbreaks.
Orange Free State-		1		1
Kuruman district	Jan. 10-16. Dec. 27-Jan. 2			. <u>D</u> o.
Ladybrand district	Dec. 27-Jan. 2		-	. Do
Transvaal—		1	1	D.
Belfast district	do	1	-	. Do.
Germiston district	Jan. 2-9 Dec. 6-12			Do. Outbreaks. In native com-
TIEFOLIS GISCICO	Dec. 9-12		-	pound.
On vessel	Feb. 21	. 2		Mexican steamer Montezuma, at Port of Ensenada, Mexico.

# Reports Received from December 26, 1925, to May 7, 1926—Continued TYPHUS FEVER

Place	Date	Cases	Deaths	Remarks
Algeria				
Algiers.	Nov. 1-Dec. 20	2 .		
Do	Jan. 1-Mar. 31	11		
rgentina:		_	ĺ	
Rosario	Oct. 13-Dec. 31	2 .		
Bulgaria	Sept. I-Dec 31 Dec 25-31	50	3	
Sofia	Jan. 8-14	1 2		
Do Canary Islands	Jan. 0-14			
Santa Cruz de Teneriffe	Mar. 8-14	1	1	
Chile				Dec. 15-31, 1925: Cases, 46.
Achao	Dec 15-31	1		
Bulnes	do	1		
Chillan	do	24		
Concepcion		6		
Linares	do	1		
Los Angeles Penco San Carlos	do	5 2		
San Carlos	do5	ī		
Taka	do	i		
Valparaiso	Nov. 29-Jan. 2. Mar. 21-27	5	2	
Do	Mar. 21-27	1		
China:				
Antung	Nov. 29-Dec 27	5	1	
Do	Jan. 4-Mar. 14	11		
Hongkong.	Dec. 27-Jan. 2	1		
Manchuria— Harbin	Dec. 17-Feb. 4	3		1
	Mar. 14-20	i		4
Shanghai Czechoslovakia	October-December	146	1	1
Egypt:	Occoper-December	140	1 *	
Alexandria	Jan. 8-Feb. 25	2	1	
Caire	Nov. 5-Dec. 16 Nov. 19-25.	3	2	
Caire Port Said	Nov. 19-25	. 1		_
Do	.  Mar. 12-18	. 1		
Esthonia	Jan. 1-31	6		
Finland			ł	October, 1925: 1 case.
France	July-October	4		D 100r. G
Greece	Nov. 1-30			December, 1925: Cases, 12.
Do	Jan. 1-Mar. 31	45	9	
Saloniki	Dec 29-Jan 4	1		1
Do	Dec. 29-Jan. 4 Feb. 2-8	l î		1
Hungary			£	November-December, 1925
	1	ł	1	Cases, 16.
Ireland:	1		ļ	1
Cork County-	Dan Of Tam 1		1	
CorkDo	Dec. 26-Jan. 1 Jan. 2-8	2 5		-}
Dumanway.		ľ		-[
Galway County		ì		
Galway County Kerry County—	ŧ	1 -		1
Listowel	Mar. 7-13	. 1		Rural district.
Wexford County—	1		1	1 -
Gorey	do	. 1		. Do.
Latvia	. October-Decembe	12		- <b>i</b>
Riga	Oct. 1-31	_ 2	j	September-October, 1925: Cases
Lathuania		-}		the doother 1
Mexico	1	1	1	9; deaths, 1. July-September, 1925: Deaths
Mexico Aguascalientes Durango	Dec 14-10	1		90
Durango	Dec. 14-19 Dec. 1-31 Jan. 1-31 Dec. 8-28	-		
Dq	Jan. 1-31		.) 1	. 1
Guadalajara	Dec. 8-28		.] 2	<b>!                                    </b>
Do	1 11ec 20-100 4		.] ]	: 1
Mexico City	Nov. 22-Dec. 26	_ 50		Including municipalities in Fed
_	1	89	1	eral District. Do.
Do	Dec. 27-Mar. 20.	-  89		
Tampico	Feb. 6-13 Dec. 21-Jan. 10	1		
Torreon	November, 1925	- 1		i (
Vera Cruz	Feb. 12.		1	
			'	• •

#### Reports Received from December 26, 1925, to May 7, 1926-Continued

#### . TYPHUS FEVER-Continued

·Place	Date	Cases	Deaths	Remarks			
Morocco	August-December	93		November-December, 1925: Cases, 2.			
Palestine:       Gaza         Gaza       Haffa         Haffa       Jaffa         Do       Nazareth         Ramleh       Safad         Tel-Aviv       Do         Tiberias       Peru:	Dec. 18	1 1 1 1 1 1 1 2					
Arequipa Do Poland Do Rumania Constantza Russia Do	October-December Feb. 1-28 Oct. 11-Jan. 2 Jan. 3-16 Feb. 1-Mar. 10	462 190 2		July-October, 1925: Cases, 1817, deaths, 22. May-June, 1925: Cases, 10,680. July-October, 1925: Cases, 6,035.			
Tunisia: Tunis Tunkey: Constantinople Do Union of South Africa		1 -		From unofficial sources (press). October, 1925: Ctate, 78; deaths, 7 (colored). Cases, European, 7. December, 1925: Cases, 78;			
Cape Province Do. Do. Grahamstown Middleburg district Natal Do. Durban Orange Free State Do. Bethulia district Bothaville district Transvaal Do. Do. Bloemhof district Johannesburg	Jan. 1-Feb. 28. Jan. 24-30. Dec. 6-12. Oct. 1-Dec. 5. Jan. 1-Feb. 28. Jan. 3-Mar. 6. Nov. 29-Dec. 5. Dec. 1-31. Jan. 1-Feb. 28. Dec. 6-12. Cet. 1-31. Dec. 1-31. Dec. 27-Jan. Dec. 27-Jan. 2. Mar. 1-28.	126 2 1 1 11 4 23 8 8 8	1 3	Do. Outbreaks. Native. On farm.			
i ugosiavia	Yugoslavia Jan. 1-Feb. 21, 1926: ('ases, 81; deaths, 12.						
Gold Coast Nigeria Senegal	Sept. 1-Dec. 31 August-October November, 1925		3 2				

#### Reports Received from December 26, 1925, to May 21, 1926—Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Gold Coast	September, De-	58	5	
Great Britain:	cember.			
England and Wales	75			Nov. 15-Dec. 26, 1925; Cases, 790;
Hull Do	Dec. 27–Jan. 23 Feb. 7–Mar. 27 Jan. 14–Feb. 6 Jan. 31–Feb. 6	29 9		Dec. 27-Apr. 24, 1926: Cases 4,144.
Leeds	Jan. 14-Feb. 6	4		2,111.
London	Jan. 31-Feb 6		1	
Newcastle-on-Tyne Do	Nov. 29-Dec. 19 Dec. 27-Apr. 10	6 40	1	
Nottingham	Dec. 27-Apr. 10 Nov. 22-Dec. 26 Dec. 27-Mar. 13	9		
Do	Dec. 27-Mar. 13	6 7		
Sheffield	Nov. 22-Dec. 12 Dec. 20-26	3		
DoSouth Shields	Dec. 20-26 Dec. 27-Mar 20	18		
South Shields	Feb. 9			Reported present in severe form,
Greece	Nov. 1-Dec. 31	18	1	Oct. 1-31, 1925: Cases, 16.
Do	Nov. 1-Dec. 31 Jan. 1-Mar. 31	87	Ĝ	
Kalamata	Mar. 1-7	1	2	From Patras.
Salonikı O nadeloupe (West Indies)	Feb. 16-Mar. 15		2	Apr. 23, 1926: Present. Alastrim.
India				Oct. 18-Dec. 26, 1925; Cases,
Bombay	Nov. 8-Dec. 26	26	20	Oct. 18-Dec. 26, 1925; Cases, 19,472; deaths, 4,440. Dec. 27, 1925-Feb. 6, 1926; Cases, 36, 335;
Do	Dec. 27-Mar. 27 Nov. 8-Dec. 26	260 48	135 25	1925-Feb. 6, 1926: Cases, 36, 335; deaths, 11,491.
Do	Dec. 27-Apr. 3	620	397	Coatio, 11,101.
Karachi	Dec. 27-Apr. 3 Nov. 1-21 Nov. 29-Dec. 5	23		
Do	Nov. 29-Dec. 5 Dec. 13-19	4 3	2	
1)0	The 90 A m 2	102	32	
Madras	Nov. 15-Dec. 26 Dec. 27-Apr. 10 Oct. 25-Dec. 26 Dec. 27-Jan. 16	17	5	
DoRangoon	Oct. 25-Dec. 26	135	24 1	
Do	Dec. 27-Jan. 16	13	i	
Do	Jan. 24-Mar. 0	70	17	
Do Indo-China	Mar. 21-Apr. 3	20	7	September-November, 1925;
Province-				Cases, 346; deaths, 86.
Annam	Sept. 1-Dec. 31	232	1 44	
Cambodia	do	84 106	34 51	
Salgon	Dec. 21-27	2	1 2	
Do	Jan. i-Mar. 21	12	2	Including 100 kilometers of sur-
Tonkin	Sept. 1-Dec. 31	153	2	rounding country.
Iraq:	•			
Bugdad	Nov. 1-Dec. 26 Dec. 27-Mar. 13	19 20	15	Sept. 6-Oct. 17, 1925; Cases, 81;
Do Basra	do	52	11	deaths, 40.
( a l w				Aug. 2, 1925-Jan. 2, 1926: Cases,
Cutania	Feb. 15-28	1	1 1	52. Jan. 3-16, 1926; Cases, 12.
Rome	Jan. 21-Feb. 10 Oct. 12-25	1		
Cutania Genoa Rome 100	l'cb. 22-28	ĺ		Occurring in consular district.
Jamaica				Nov. 29-Dec. 26, 1925; Cases, 95. Dec. 27, 1925-Apr. 21, 1926;
				Cases, 500. Reported as alas-
				trim.
Kingston	Nov. 29-Dec. 26 Dec. 27-Jan. 30	43 48		Reported as alastrim. Do.
Do	Feb. 28-Apr. 24	36		Do.
lapan:	,			
Kobe	Mar. 14-Apr. 17 Feb. 15-21	3		
Nagesaki Taiwan	Nov. 11-Dec. 10	3	**********	
Do	Mar. 21-31	3		Formosa.
Yokohama Do	Dec. 14-20 Feb. 23-Apr. 10	1 67	II	
Java:	AULUM AUTTE IN TO	Đ,	1 41	
Batavia	Oct. 24-Dec. 25	8		
		5		
Do	Fob. 20-Mar. 5	1	1	
DoBuitenzorg	Nov. 29-Dec. 5 Nov. 8-Dec. 12	1 2	******	
Do	Nov. 29-Dec. 5 Nov. 8-Dec. 12 Jan. 31-Feb. 6		1	



#### Reports Received from December 26, 1925, to May 21, 1926-Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Java—Continued.				
Kraksaan	Oct. 11-17	11		
Malang	Oct 11-Dec. 26	2 3	2	
Do North Bantam	Dec. 27-Jan. 16 Oct. 4-17	4	-	
Pekalongan	Oct. 25-31	i		
Pontianak	Jan. 31-Feb. 6		1	
Probolinggo	Oct. 11-17	1		
Serang	Feb. 14-27	5		
South Bantam	Feb. 23-Mar. 27	1		
Surabaya	Oet. 11-Dec. 26 Dec. 27-Mar. 13	633 135	104 41	
Do Tegal	Oct. 4-10	135	1	
Latvia	1		1	December, 1925: Cases, 3.
Malia	Nov 1-Der. 21	21	3	,
Do	Jan. 1-Feb. 28	20		
Mexico				July-September, 1925: Deaths,
Aguascalientes	Dec. 13-Jan. 2	4	3 7 2	1, 157.
Do	Jan. 3-30 Feb. 14-Apr 24		5	ľ
Durango	Dec. 1-31		î	
Do	Jan. 1-31	]	2	
Guadalajara	Dec. 27-Apr. 26		21	
Mexico City	Nov. 28-Dec. 5	1	1	Including municipalities in Federal District.
Do Saltillo	Jan. 3-Apr. 17	10		Do.
San Luis Potosi	Apr. 4-10 Jan. 17-Mar. 20	1	53	
Do	Mar. 28-May 1	15	22	
Tampico	Dec. 21-Jan. 2	i	22 1	
Do	Dec. 2i-Jan. 2 Jan. 2-Mar, 10	8		†
Torreon	Nov. 1-Dec. 31 Jan. 1-Mar. 31		51	į
Do	Jan. 1-Mar. 31	*	65	1
Vera Cruz Netherlands:	Mar. 29-Apr. 4	5	1	İ
The Hague	Jan. 30-Mar. 6	2	1	``-
Nigeria	aum. 60-1014. 0	ļ <u>-</u> -		August-November, 1925: Cases,
Palestine:		Ī	Ī	347; deaths, 6.
Hebron	Jan. 26-Feb. 1	2	)	
Tiberias	Feb. 9-15	1 4		
Persia:		]	1	
Teheran	July 23-Dec. 22		775	
Do	Dec. 23-Feb. 19		99	
Peru:	0	1		
Arequipa Poland	Oct. 1-Dec. 31		2	Nov. 1-28, 1925: Cases, 9. Jan.
4 VAQAA			ļ	1-16, 1926: Cases, 4.
Portugal			I	Mar. 1-28, 1926: Deaths, 6.
Lisbon	Oct. 4-31	124		
Do	Nov. 16-Dec. 27 Nov. 14-Dec. 26		60	
Do	Nov. 14-Dec. 26	187		
Do	Dec. 27-Apr. 17 Nov. 22-Dec. 19 Dec. 27-Mar. 6	126	29	
Oporto	Nev. 22-Dec. 19	2	3	
Do	August-October	3	. 1	
Russia	August-October			May-June, 1925: Cases, 2,333.
De	July-October	1,563		integ o dady 1020. Classo, 2,000.
Siam				July 12-Sept. 5, 1925; Cases 21;
Bangkek	Dec. 20-25	3	1	deaths, 6.
Do	Dec. 26-Mar. 6	81	37	. ,
Do Sierra Leone:	Mar. 14-27	14	12	•
Konno district	Dec. 16-31	ا ر	1	
Spain:	100.10-01	5		
Madrid	Year 1925		18	
Do	Ion 1-21		191	
Malaga	Nov. 29-Dec. 5		1 2	
Do			i il	
Valencia	Dec. 20-26	1		
		: 71		
D0	1.00. 2/-1an. 2	1 1		
Do Do Do	Dec. 20–26 Dec. 27–Jan. 2 Jan. 10–Feb. 6 Feb. 14–Apr. 24	12		

#### Reports Received from December 26, 1925, to May 21, 1926—Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Straits Settlements: Peneng	Mar. 28-Apr. 3 Dec. 20-26	<u>i</u>	1	
Do	{Jan. 10-16   Feb. 7-27	7	1	
Sumatra. Medan Switzerland	Feb. 14-27	2		June 28-Nov. 21, 1925: Cases 62;
Lucerne Do Zurich	Oct. 1-Nov. 30 Jan. 1-31 Dec 27-Jan. 2	8 5 1		Dec. 27, 1925-Jan. 30, 1926; Cases, 37.
Trinidad (West Indies): Port of Spain Tunisia	Jan. 1-Apr. 3	12		
Tunis Do Do	Nov. 21-30 Dec. 11-31 Jan. 1-Apr. 20	10	ī	
Union of South Africa: Cape Province	Jan. 17-23			Outbreaks.
Orange Free State— Kuruman district—— Ladybrand district———	Jan. 10–16 Dec. 27–Jan. 2			Do. Do.
Transvaal— Belfast district———————————————————————————————————	do Jan 2-9			Do. Do.
Pretoria district On vessel	Dec. 6-12 Feb. 21	2		Outhreaks. In native com- pound. Mexican steamer Montezuma, at
On vessel	Feb. 21	2		Port of Ensenada, Mexico.

#### TYPHUS FEVER

					-
	1	(	(		
Algeria:					
Algiers.	Nov. 1-Dec. 20	2			
Do	Jan. 1-Apr. 10	13			
Argentina:	_	1	1	1	
Rosario	Oct. 13-Dec. 31	2			
Bulgaria.	Sept. 1-Dec. 31	50	3		
Sofia	Dec. 25-31	1	L		
Do	Jan. 8-14	2			
Canary Islands:		_			
Santa Cruz de Teneriffe	Mar. 8-14	1	1		
Chile	Man o transport	•	*********	Dec. 15-31, 1925; Cases, 46. J	an.
Achao	Dec. 15-31	1		1-15, 1926: Cases, 23.	44724
	Jan. 1-15	1 1		1-10, 1020. Ottobs, 20,	
Do	Jan. 1-10	2			
Ancud.	do	1			
Antole, bata	Apr. 11-17				
Bulnes	Dec. 15-31	1			
Chillan	do	24			
Concepcion	(10	[ 6			
Lineres	do	1			
Los Angeles	do	5-			
Penco	do	. 2			
Salamanca	do	17			
San Carlos	do	1			
Talen	do	1			
Valparaiso	Nov. 29-Jan. 2	5	2		
Do	Jan. 3-Mar. 27	4	-		
China:	0000000	-			
Antung	Nov. 29-Dec. 27	5	1		
Do	Jan. 4-Apr. 11	15	• 1		
Hongkong	Dec. 27-Jan. 2	10			
	1000. 21-3011. 2	,			
Manchuria—	D 17 Fig. 4	3			
Harbin	Dec. 17-Feb. 4	رد			
Do	Apr. 2-8	1			
Shanghai	Mar. 14-20	1			
Czechoslovakia	October-December	146	1		
Egypt:		_			
Alexandria	Jan. 8-Feb. 25	2			
Cairo	Nov. 5-Dec. 16	3	2		
Port Said	Nov. 19-25	1			
Do	Mar. 12-18.	1			

#### Reports Received from December 26, 1925, to May 21, 1926—Continued

#### TYPHUS FEVER-Continued

Place	Date	Date Cases Deaths		Remarks		
Esthonia	Jan. 1-31	6				
Finland France	Tales Ostalian	4		October, 1925: 1 case.		
Greece	July-October	4		December, 1925: Cases, 12.		
Athens	Nov. 1-30	11	2	December, 1920. Cases, 12.		
Do	Jan. 1-Mar. 31	45	9	1		
Saloniki	Dec. 29-Jan. 4	1				
Do	Feb. 2-Mar. 22	2				
Hungary				November-December, 1925: Cases, 16.		
Ireland: Cork County—						
Cork.	Dec 26-Jan. 1	2		1		
Do	Jan. 2-8.	5				
Dumanway	Nov. 14	1				
Galway County	Oct. 17	1		· • • · · · · · · · · · · · · · · · · ·		
Kerry County-	Mar. 7-13	1		Thomas Statutant		
Listowel Wexford County— Gorey		_		Rural district.		
Latvia	October-December	12		Do.		
Riga.	Oct. 1-31	2		·].		
Lithuania	OCE. 1-01	-		September-October, 1925: Cases,		
Mexico		-		9; deaths, 1. July-September, 1925: Deaths,		
Aguascalientes	Dec. 14-19	1		90.		
Durango	Dec 1-31	Í	1	1 00.		
Do	Jan. 1-31		l ī	1		
Ouadalajara	Dec. 8-28		. 2	1		
Do. Mexico City	Dec. 29-Jan. 4		1			
	Nov. 22-Dec. 26	50	[	Including municipalities in Federal District.		
Do	Dec. 27-Mar. 20	89		Do, Do.		
Do	Mar. 28-Apr. 10 Feb. 6-13	11		Do.		
San Luis Potosi	Feb. 6-13		1			
Tampico Torreon	Dec. 21-Jan. 10 November, 1925	1	1	1		
Vera Cruz	Feb. 12.		1	ł		
Morgeco.	August-December	93	•	l		
Norway				November-December, 1925: Cases, 2.		
Palestine:	ŧ	[		Cases, 2.		
Ekron	Mar. 30-Apr. 5	1	l	ł		
Gaza	Dec. 18 Mar. 16-22	ī		1		
Haifa	Mar. 16-22	. 1				
Jaffa	Dec. 1-7	1,				
Do	Feb. 23-Mar. 1	. 1		1		
Nazareth	Nov. 3-9	1				
Ramleh Safad	Mar. 16-22	. 1				
Tel-Aviv	Nov. 24-30do	1	ļ			
Do	Mar. 9-15	1				
Tiberias.	do	2				
Peru:	~~	_				
Arequipa	October-December		3			
Poland.	Feb. 1-Mar. 31 Oct. 11-Jan. 2 Jan. 3-Feb. 6		. 2			
Do	Oct. 11-18h, 2	462	44			
Rumania	-*H. 9-16D. 6	375	32	Yester Outstand soon. Outstand		
Constantza	Feb. 1-Mar. 10			July-October, 1925: Cases, 181;		
Russia	- v.v. 1-101.10	2	[	deaths, 22. May-June, 1925: Cases, 10,680.		
Do				July-October, 1925: Cases, 10, 580.		
Tunisia:				AUT ACCOUNT 1980! CRIMINATE ENGO!		
Tunis	Mar. 21-31	3				
Turkey:						
Constantinople	Jan. 24-30	3		•		
Do	Feb. 9-22		3	From unofficial sources (press).		

#### Reports Received from December 26, 1925, to May 21, 1926—Continued

#### TYPHUS FEVER-Continued

Place	Date	Cases	Deaths	Remarks
Cape Province	Dec. 1-31 Jan. 1- Feb. 28 Dec. 6-12 	1 18 8 8	4	October, 1925: Cases, 88; deaths, 7 (colored). Cases, European, 7. December, 1925: Cases, 78; deaths, 9. Colored: Cases, 78; deaths, 9. January-February, 1926: Cases, 163; deaths, 28. Colored.  Do. European. On farm. Colored.  Do. Outbreaks. Native. On farm. Outbreak. On farm. Jan. 1-Feb. 21, 1926: Cases, 81; deaths, 12.
	YELLO	W FEV	ER	
Gold Coast Nigeria Senegal	Sept. 1-Dec. 31 August-October November, 1925	4 3 3	3 2 2	

#### TREASURY DEPARTMENT

# PUBLIC HEALTH REPORTS

ISSUED WEEKLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

VOLUME 41 :: :: NUMBER 23

JUNE 4 - - - 1926

#### == SPECIAL ARTICLES

Studies on the Streptococcus of Epidemic Encephalitis Current Court Decisions Relating to the Public Health



WASHINGTON
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1926

#### UNITED STATES PUBLIC HEALTH SERVICE

HUGH S. CUMMING. Surgeon General

#### DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg. Gen. B. J. LLOYD, Chief of Division

The Public Health Reports are issued weekly by the United States Public Health Service through its Division of Sanitary Reports and Statistics, pursuant to acts of Congress approved February 15, 1893, and August 14, 1912.

They contain: (1) Current information of the prevalence and geographic distribution of preventable diseases in the United States in so far as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other communicable diseases throughout the world. (2) Articles relating to the cause, prevention, or control of disease. (3) Other pertinent information regarding sanitation and the conservation of the public health.

The Public Health Reports are intended primarily for distribution to health officers, members of boards or departments of health, and those directly or indirectly engaged in or connected with public health or sanitary work. Articles of general or special interest are issued as reprints from the Public Health Reports or as supplements, and in these forms are available for general distribution to those desiring them.

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# PUBLIC HEALTH REPORTS

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# STUDIES ON THE ETIOLOGY OF EPIDEMIC ENCEPHALITIS. I. THE STREPTOCOCCUS

By ALICE C. Evans, Associate Bacteriologist, Hygienic Laboratory, United States Public Health Service and Walter Freeman, M. D., Senior Medical Officer, Director of Laboratories, St. Elizabeths Hospital, Washington, D. C., Professor of Neuropathology, George Washington University Medical School

Epidemic encephalitis is a newly recognized disease which is demanding increasing attention. It made its appearance in Vienna, Austria, during the winter of 1916-17, and from there spread to other countries. The first cases to be recognized in the United States occurred in the winter of 1918-19. Since then, the number of cases has steadily increased, and in the year 1924, 969 cases were reported in 40 cities of this country representing a population of about 22,500,000. The mortality was 50 per cent. Among those who survive the acute attack, many are later afflicted by motor disorders characterized by rigidity and tremor, or by spasmodic movements and often by salivation and other disturbances of the vegetative nervous system, and many develop changes of personality or other abnormal psychic traits which bring them to hospitals for During the summer of 1925, three patients suffering the insane. from chronic encephalitis died at St. Elizabeths Hospital, the Government hospital for the insane at Washington, D. C., and this report is on a bacteriologic study of material from these cases.

A brief survey of the various opinions in regard to the etiologic agent of epidemic encephalitis is of interest. Some of the early symptoms of encephalitis are similar to early symptoms of botulinus poisoning; hence, both in Austria and in England the disease was first mistakenly attributed to food intoxications. There has been much discussion of the relationship of epidemic encephalitis to epidemic influenza. There is a prevalent idea that encephalitis may be a sequel attending influenza, the pandemic having prepared the way by reducing resistance to the causative agent of encephalitis. On the other hand, there are those who believe that the influenza bacillus is itself responsible for encephalitis. Crofton has recently submitted evidence to support that hypothesis.

One of the earliest bacteriologic investigators of the disease was Von Wiesner who carried out his studies in Vienna in 1917. He

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inoculated a monkey subdurally with an emulsion of brain from a fatal case of encephalitis lethargica. The animal sickened and died in 46 hours. At necropsy a meningo-encephalitis was found, and from the lesions a diplostreptococcus was cultivated which reporduced the disease in a second monkey and was highly virulent for a rabbit, causing death of the rabbit in 20 hours. Rosenow has also cultivated from a large number of cases of encephalitis a streptococcus which shows peculiar neurotropic properties and produces nervous symptoms in the rabbit, monkey, mouse, and guinea pig. Rosenow obtained his organism constantly from infected tonsils, teeth, or nasopharynx of patients during life and from the brain after death. Minute forms of the organism occurred, which passed through filters that held back Serratia marcescens (Bacillus prodigiosus).

The streptococcus to be described in this paper agrees with that of Von Weisner and with that of Rosenow in so far as the comparisons have been made

Two groups of Italian workers also have cultivated, from cases of epidemic encephalitis, diplococci which appear to be the same as the one here described. Maggiora, Mantovani, and Tombolato obtained a diplococcus from the blood in three severe cases. It produced nervous symptoms when inoculated into guinea pigs, and could be transmitted from animal to animal. A few months later Ottolenghi, d'Antona, and Tonietti obtained a diplo-streptococcus from one of six cases of lethargic encephalitis. They identified their strain with the pleomorphic streptococcus of Von Wiesner, and with the diplococcus of Maggiora, Mantovani, and Tombolato.

Other investigators have cultivated streptococci from cases of encephalitis. Probably some of these investigators, possibly most of them, have cultivated the same organism as the one here described; but their descriptions are not sufficiently complete, or else a discrepancy occurs in their descriptions when applied to our organism, so that identification can not be made with certainty.

Reichert cultivated a pleomorphic streptococcus from the brain at necropsy in all of eight cases of epidemic encephalitis and he obtained the same organism from the heart blood in four cases. He is convinced of the identity of his organism with that of Von Wiesner, and his descriptions, in so far as they go, appear to justify that conclusion. But Reichert made no tests of the pathogenicity of his organism.

Stafford cultivated diplococci from the spinal fluid taken from two cases, and Cohn and Lauber cultivated a diplococcus from the blood of one case of encephalitis. The diplococci described by these investigators agree in general with the organism described in this paper. Animal experiments gave negative results. These investigators did not, however, make intracerebral inoculations, and their

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negative results with inoculations made by other routes are not necessarily at variance with our results.

Brasher, Caldwell, and Coombe observed a Gram positive diplococcus in the cerebrospinal fluid from two cases of encephalitis. They were unable to obtain cultures.

Bradford, Bashford, and Wilson report the cultivation of a pleomorphic coccus from cerebrospinal tissue in cases of "acute infective polyneuritis." They claim to have reproduced the disease in monkeys by subdural inoculation of cultures. None of their cultures, however, could be carried beyond the fifth generation. The statement that their organism will not grow aerobically is contrary to the behavior of our cultures.

Loewe and Strauss carried out extensive experiments with a filterable organism obtained from brain, from nasopharyngeal mucous membrane, and from nasal washings from cases of epidemic encephalitis. They cultivated a streptococcuslike organism in tissue ascitic fluid medium, and were able to transmit the disease to monkeys and rabbits. Positive animal inoculations were obtained with the eleventh generation of this organism. Their results were later duplicated by Thalheimer. The statement of these investigators that their cultures would not grow on ordinary media disagrees with our results.

Several investigators, including Levaditi and Harvier, McIntosh, Doerr, and Schnabel, and Perdrau, have worked with strains of encephalitis virus which are passed from animal to animal by inoculations with the brain emulsions, or with filtrates of brain emulsions, without cultivation of the organism between passages. The confusion of the whole subject is shown by the fact that the disease caused in rabbits by these encephalitis viruses can not be distinguished from the disease caused by the virus obtained from cases of herpes. This similarity in the diseases caused by the encephalitic and herpes viruses was first observed by Doerr and Schnabel and has been confirmed by a number of investigators.

It is impossible, at the present stage of our knowledge, to correlate the results of those investigators who consider the pleomorphic streptococcus as the etiologic agent in epidemic encephalitis, with the results of those who fail to cultivate an organism from the virus. Certain claims common to the two groups suggest, however, that both may be working with the same organism. Both groups of workers produce the symptoms of encephalitis in experimental animals, with brain lesions similar to those in the human disease; both groups of workers are able to immunize experimental animals against their respective viruses; both groups of workers have found the agent of encephalitis in the nasopharynx of normal persons. Some of those investigators who have cultivated a pleomorphic

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coccus have found minute forms which will pass through a filter capable of holding back ordinary bacteria.

There is an erroneous idea prevalent in regard to "filterable viruses" which may account for the failure of some investigators to cultivate the streptococcus of epidemic encephalitis—namely, the idea that bacteria of ordinary size can not occur in filterable forms, and, vice versa, that if an organism is filterable it can not also occur in forms comparable in size with ordinary bacteria. Consequently, when an investigator of a filterable virus finds ordinary sized bacteria in his medium, he is likely to discard it as "contaminated" without further consideration.

#### TECHNIQUE

The media used in these investigations are very simple. Anaerobic cultures are grown in a meat medium prepared like ordinary beef infusion broth; but instead of discarding the meat from which the broth is made, the ground meat particles are placed in the tubes to a depth of about 1 inch. After the medium has been inoculated, a cap of sterile melted vaseline is added.

Vitamin agar is prepared according to the ordinary method for plain infusion agar; but instead of filtering, the sediment is allowed to settle, and after the agar is hardened it is cut away. The agar thus made is a clear medium favorable for the growth of delicate organisms.

Plantings of tissue in meat medium were made with pieces about the size of a pea, or, in the case of blood, a few drops were planted. The meat medium alone was used for planting the human tissues. Those from the experimental animals were planted also on a series of three or four vitamin agar slopes. The first tube was smeared with the tissue, then without flaming the loop, the remaining tubes were planted in succession. If growth occurred, it could be recorded as sparse, moderate, or heavy, according to the number of colonies in the various tubes.

Intracerebral inoculations of rabbits were made with the broth from the meat medium cultures or with emulsions of brain. The brain was ground in a mortar and physiologic salt solution added to make an emulsion of approximately 10 per cent. The emulsion was then strained through gauze or filtered through a Mandler filter. The inoculum for rabbits was always 0.25 cubic centimeter. The rabbit was anesthetized with ether, and a cut about a half-inch long was made in the skin at the top of the head a little to the right of the median line. The skin was then drawn to the left, and the skull was trephined through the cut a little to the left of the median line. Inoculations were made into the brain tissue. Monkeys were inoculated intracerebrally in the same manner as the rabbits. The

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amount of inoculum for the monkeys varied, however, and will be given in the protocols.

In the filtration experiments the efficiency of the filter was always tested by heavily inoculating the material with Serratia marcescens (Bacillus prodigiosus) from a young agar slope culture before placing it in the filter.

#### BACTERIOLOGIC INVESTIGATION

Two of the cases investigated gave negative results. From the third the cultures were obtained on which this paper is based.

The first case to come under this bacteriologic investigation (designated Case 2 in the report of cases) 1 died suddenly on June 4, 1925, nearly six years after the acute attack of the disease. Necropsy was performed 69 hours after death. Pieces removed from the spinal cord and from various parts of the brain were obviously contaminated, except that from the cerebral cortex, from which several strains of cocci were obtained. After preservation in glycerin for two days an emulsion of the mesencephalon was prepared, and intracerebral inoculations were made into one monkey and three rabbits. The monkey never showed definite nervous symptoms, but died of pneumonia about a month after inoculation. The rabbits all developed nervous symptoms and died or were chloroformed on the second, fifth, and ninth days, respectively, after inoculation. Seventeen more rabbits were inoculated intracerebrally with emulsions of the human mesencephalon or with cultures obtained from the human brain or from the brains of the rabbits which had shown nervous symptoms, or with emulsions of the brains of these rabbits. The results of these inoculations were negative except in one rabbit which was inoculated with culture and died on the fifth day after showing nervous symptoms. Further inoculations with this strain gave negative results.

The second case to be studied bacteriologically (designated Case 3 in the report of cases) died on July 19, 1925, more than four years after the onset of illness. Necropsy was performed 15 hours after death. Plantings were made in the meat medium at once, and the following day an emulsion was prepared with the mesencephalon which had been preserved in glycerin. Two monkeys and six rabbits were inoculated intracerebrally with the emulsion, and six rabbits were inoculated with cultures obtained from this human brain, with uniformly negative results.

The third case to be studied bacteriologically (designated Case 4 in the report of cases) died on August 15, 1925. The patient had suffered from two previous attacks of acute encephalitis, one in 1919 and one in 1923. The third attack began in July, 1925, and was characterized by high fever, which terminated fatally, with a tem-

¹ Detailed report of these cases will appear elsewhere.

perature of 107° F. Necropsy was performed two hours after death. A pleomorphic organism, highly virulent for rabbits and monkeys when inoculations are intracerebral, was cultivated from the mesencephalon and from the heart blood taken at necropsy, and it was also obtained from nasal washings taken a few days before death.

The remarkable pleomorphism of the organism suggests life cycles as complex as those of some of the higher fungi. It may be stated briefly that in one of the phases of its life history this organism is a spore-forming rod. The rod form produces not only spores, but also exceedingly minute, filterable, coccoid bodies which develop as buds on the outer walls of the rods. Under certain conditions these minute coccoid bodies enlarge and multiply as cocci. The detailed study of the rod form and other phases in the life history of the organism will be given in forthcoming publications. This report will be limited to observations on the streptococcus form of the organism—the form in which the virulence is highest and most stable.

The three strains of streptococcus obtained from Case 4 were designated P-95, P-104 and P-107. Strain P-95 was obtained from the nasal washings taken eight days before death. Two rabbits inoculated intracerebrally with the washings showed nervous symptoms and died or were chloroformed on the second and third days. Strain P-95 was obtained from the brain of one of these rabbits. It grew readily on the vitamin agar as well as in the meat medium.

Strain P-104 was obtained from the human heart blood taken at Four tubes of meat medium were each planted with several drops of blood. Two days later they were examined, and all showed clouding, with gas. Stained smears showed a variety of forms. The subsequent demonstration of pleomorphic forms of the organism raises the question as to what extent these original cultures were contaminated. Two rabbits were inoculated intracerebrally with different cultures. One of these rabbits nover showed any symptoms. The other rabbit showed nervous symptoms on the day following inoculation, and died on the second day. Cultures planted with the rabbit's brain showed pure growth of strain P-104, which proved to be identical with strain P-95. In the first and second culture generations of strain P-104 from the rabbit's brain, growth occurred on vitamin agar only when the inoculations were very heavy. In all subsequent plantings, growth has taken place readily on the vitamin agar, even in the first generation after animal passage.

Strain P-107 was obtained from the human mesencephalon taken at necropsy. Six tubes of meat medium were planted with pieces of mesencephalon, and all showed clouding two days later, when first examined. Three of the six cultures were inoculated intracerebrally into rabbits, and all were found to be virulent. The culture from

which strain P-107 was derived was incubated for two days, placed in the ice box for a week, then, after five days more of incubation, it was inoculated intracerebrally into a rabbit. On the following morning the rabbit was found dead. (Death had occurred in less than 18 hours.) Meat medium and vitamin agar planted with the brain showed pure growth of P-107.

Plantings in meat medium were made also from the cortex and medulla of Case 4. Of 18 tubes planted with cortex, 2 showed growth. Both of these cultures proved to be avirulent when inoculated intracerebrally into rabbits. Of 5 tubes planted with medulla, 4 showed growth. Two of the cultures obtained from the medulla were inoculated intracerebrally into rabbits and were found to be avirulent.

The negative results obtained with cultures from the cortex and medulla are in striking contrast with the positive results obtained with cultures from the mesencephalon. These findings indicate that the virulent organism was localized in the mesencephalon, which is known to be the seat of the most marked pathologic alterations. There is evidence, however, that it was only sparsely seeded in the mesencephalon. After the brain had been preserved in glycerin for three days, pieces of the medulla and mesencephalon were emulsified together and the emulsion was inoculated intracerebrally into three rabbits. One rabbit was found dead three and one-half hours later. The cause of death was not determined. The two remaining rabbits never showed any symptoms. It will be shown further on that rabbits withstand light inoculations of the organism without showing symptoms.

## DESCRIPTION OF THE STREPTOCOCCUS

When heavily seeded on vitamin agar the streptococcus grows in a delicate film of minute colonies scarcely visible to the naked eye. When the colonies are well isolated they may attain the size of an ordinary streptococcus colony. On blood agar there is a small zone of slight hemolysis with a greenish tinge. The organism will grow on plain agar and in plain broth. Litmus milk is curdled in two days. Broth cultures with an initial pH value of 7.3 are reduced to about pH 6.6 with lactose present, and to about pH 4.8 with dextrose, maltose, or saccharose present. Salicin, raffinose, mannite, and inulin are not fermented.

In its morphology this streptococcus displays some peculiar characteristics. In meat medium culture, and, more markedly, in the condensation water of an agar slope that has been smeared with tissue, the diplococci grow in long parallel chains forming ribbons of two, three, or more filaments. (Fig. 1.) The chains of a ribbon have a tendency to separate and bulge here and there, making rings which may be more or less angular; and single chains may be com-

monly found with one end curled around to form a closed loop. Occasionally very large, deeply stained forms may be found in a chain of ordinary coccus forms. These large forms within the chains usually occur in pairs. (Fig. 2.)

On blood agar slope the streptococcus grows not only as a diplococcus, but also in masses made up of minute deeply stained bodies surrounded by a lightly stained substance. The appearance is that of a plasmodium dotted with myriads of minute nuclei.

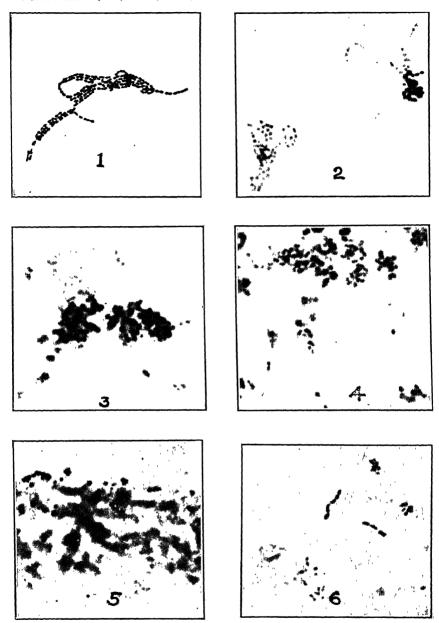
Cultures on agar slopes that have been smeared with the organs of a rabbit which has died following intracerebral inoculation after having been partially protected by previous intravenous inoculations (the protection experiments will be discussed further on) show a great variety of pleomorphic forms. Diphtheroids and giant cocci are common (fig. 3); and deeply stained bodies of irregular size and shape may be found embedded in lightly stained material of indefinite form (fig. 1).

In smears of the brain of a tabbit which has succumbed to a rapidly fatal infection, cocci varying greatly in size may be found. (Fig. 5.) The largest cocci in Figure 5 are the size of ordinary cocci. It is obvious that if an emulsion of a brain containing these minute cocci were passed through a filter with pores just small enough to hold back bacteria of ordinary size, the smallest forms to be seen in the photograph would pass through the filter.

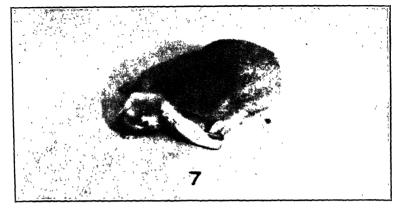
Figure 6 shows the streptococcus in a smear of the brain of a monkey which died of the infection.

In smears prepared from agar slopes or from meat medium the streptococcus is variable to Gram's stain. When grown in fluid culture it is peculiarly resistant to staining. When Gram-safranin is used it commonly happens that no organisms, or only a few, may be found in smears prepared from meat medium cultures that are heavily clouded. The abundance of cocci that would be expected in smears prepared from heavily clouded cultures can rarely be found when the smears are stained with Gram-safranin. Cultures that are completely resistant to the Gram-safranin may present an unusual picture when the smears are stained with Loeffler's methylene blue. Some of the cocci may be stained a deep blue, and others may be unstained, appearing as hyaline bodies against a pale blue background. Sometimes the hyaline bodies are irregularly distributed among the deeply stained cocci in their. The organisms are readily stained by Giemsa's method.

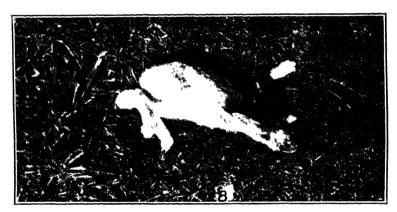
Retention of virulence.—In an infected rabbit's brain preserved in glycerin at about 4° C. the virulence of the streptococcus had decreased slightly on the nineteenth day, notably on the thirty-sixth day, and by the forth-eighth day there had been a complete loss of



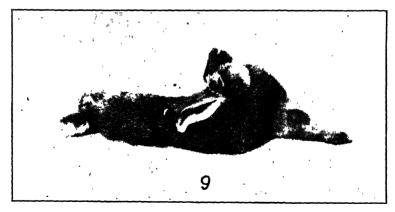
- 1. Streptococcus form of strain P-95. 24-hour culture in meat medium. Stained by Giemsa's method. (X 1,200, approx.)
  2. Streptococcus form of strain P-104. 24-hour culture in meat medium planted with rabbit's brain. Stained with methylene blue. (X 2,900, approx.)
  3 and 4. Pleomorphic forms of strain P-95. 48-hour culture on agar slope planted with liver of a rabbit which had been partially protected by several intravenous inoculations previous to the fatal dose given intracerebrally. Stained by Giemsa's method. (X 2,900, approx.)
  5. Strain P-95 in smear of brain of rabbit. Stained with Gram-safranin. (X 2,900, approx.)
- approx.)
  6. Strain P-95 in smear of brain of monkey 38. Stained with Gram-safranin. (X 2,000, approx.)



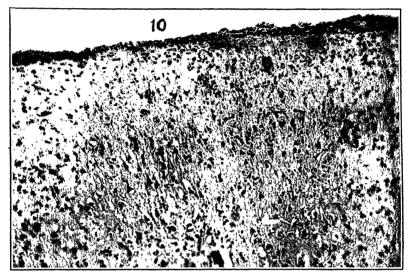
Rabbit 50 (see Table 2)



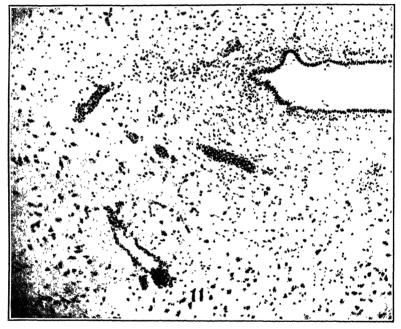
Rabbit 62, two days after intracerebral inoculation with the original culture planted with the patient's midbrain



Rabbit 46 (see Table 2)



Rabbit 196. Cerebral cortex, showing meningeal infiltration, reaction of neuroglia in the superficial layers of the cortex, and perivascular round-cell infiltration



Monkey 39. Mesencephalon. About the aqueduct there are several blood vessels the sheaths of which are packed by lymphocytes and a few leucocytes. There is pronounced reaction on the part of the neuroglia

virulence. Whether or not this decrease in virulence was due to a diminution of viable organisms was not determined.

Cultures in meat medium kept at about 4° C. have maintained their virulence for five months.

#### EXPERIMENTAL ENCEPHALITIS IN RABBITS

The streptococcus is highly virulent for rabbits when inoculated into the brain. Strain P-95 has been passed through a series of 18 rabbits. The first rabbit of the series was inoculated intracerebrally with nasal washings from the patient, and death occurred in 66 hours. All subsequent inoculations have been with cultures, and death has invariably occurred in less than 18 hours when the inoculations were intracerebral with undiluted fresh culture. The most rapidly fatal result was noted in the thirteenth passage, when death occurred in 5% hours.

Strain P-104 has been passed through a series of six rabbits. The first rabbit, inoculated intracerebrally with a culture planted with the human heart blood, died 43 hours after inoculation. In subsequent passages death has occurred in less than 23 hours when the inoculation was intracerebral with undiluted culture.

Strain P-107 has been passed through a series of 12 animals, all rabbits, except that the eighth passage was through a monkey. The first rabbit, inoculated with a culture planted with the human mesencephalon, died in less than 18 hours after inoculation. In all subsequent passages death occurred in less than 18 hours when inoculations were intracerebral with undiluted culture.

The rapidity of death in these rabbits suggests the possibility that a soluble toxin may be responsible for the quick action. That this is not the case was demonstrated on two occasions by inoculating rabbits with cultures that had passed through Mandler filters, as controls for rabbits inoculated at the same time with the same cultures unfiltered. The rabbits inoculated with filtered cultures showed no symptoms. On the other hand, the innumerable colonies which always appear on the series of agar slopes planted with the brains of rabbits which have died a few hours after inoculation leave no doubt that death is caused by the organisms. The rabbit which died in 5% hours was already going into a lethargic state by the time it had recovered from the effects of the ether. The lethargy increased until there was complete prostration, with continuous clonic movements of the limbs.

Usually, however, the disease manifests itself in a manner different from that described above. After the intracerebral inoculation of 0.25 cubic centimeter of culture the rabbit recovers from the effects of the ether in 15 or 20 minutes, and then he generally behaves like a normal rabbit for a few hours. The first evidence of the infection

is an increasingly rapid and labored respiration, with a rise in temperature. Then commonly there is a sudden loss of the use of the hind limbs. The rabbit appears alert and tense with excitement and anxiety; he starts now and then with a hurried movement, but does not progress rapidly on account of his dragging hind quarters, which are spastic rather than flaccid. Complete prostration follows, usually accompanied by convulsions, and death occurs a few hours later.

At necropsy the brain is found congested. Frequently the blood vessels in the subcutaneous tissue of the chest and abdomen are congested, and occasionally there is a hemorrhagic exudate. There are no other gross lesions. The urinary bladder is usually found distended.

When inoculations were made with a culture attenuated by glycerin, or with a diluted fresh culture, or when partial protection was secured by a series of intravenous inoculations, or, in some cases, in the first passage rabbit inoculated with culture planted with human material, the course of the disease was prolonged. In no case, however, has death occurred later than the tenth day. rabbits which survived that period made a complete and rapid recovery in their general physical condition, with slow recovery from nervous symptoms. The early symptoms most commonly observed when the disease was prolonged were labored breathing, with a purulent discharge from the nose, fever, tremors, incoordination and stiffness of the limbs. Later, a variety of symptoms were manifest. some of which resembled those that characterize epidemic encephalitis in man. Some rabbits held their heads rotated on the long axis toward the side of inoculation and following their heads in rotation they rolled over and over, kicking themselves along until they rolled against an obstruction or until progress was stopped by exhaustion. Figure 7 shows a rabbit with a rotated head, and Figure 8 shows a rabbit in a distorted position commonly observed. Some of the rabbits had strongly retracted necks. (See fig. 9.) Many turned round and round away from the side of inoculation, more rarely toward it. One rabbit, inoculated with the first generation of a culture planted with a piece of the human midbrain, was very sick and developed a strongly rotated head and great loss of weight. On recovery, many weeks after the inoculation, it showed reduced rotation of the head, but a tendency to remain in a certain position almost without moving for a considerable period. There was also observed in this animal an intermittent rhythmic tremor of the jaws. practically a counterpart of the tremor of the jaws frequently observed in patients. This rabbit slowly returned to almost normal. and was used again to determine whether the infection protected it against a subsequent inoculation. (See rabbit 61 in the discussion, further on.)

Regardless of whether the inoculation was intracerebral or intravenous, if death occurred within three or four days the brain was always found to be very heavily seeded with the streptococcus, but the heart blood and lungs showed no growth or were sparsely seeded. Sometimes no growth developed in cultures planted with liver, but the liver was found to be sparsely or moderately seeded with the streptococcus more often than in the case of the heart blood or lungs, and occasionally the liver was found to be heavily seeded.

## THE APPROXIMATE MINIMAL LETHAL DOSE

A series of experiments was carried out to determine the approximate minimal lethal dose by the intracerebral route. When the culture was diluted 1 to 1,000 or 1 to 10,000, death was delayed from a few hours to nine days. Three rabbits were inoculated with broth culture diluted 1 to 100,000, one with the third and two with the eighth passage culture. They showed no symptoms, although by planting 0.25 cubic centimeter of the diluted cultures it was shown that there were at least a few organisms in the inoculum. The fact that rabbits will withstand light inoculations of the organism without showing symptoms throws some light upon the results obtained in filtration experiments.

## FILTRATION EXPERIMENTS

Filtrates of the emulsion of the human brain, of the emulsion of rabbit's brains, and filtrates of cultures have given uniformly negative results when inoculated intracerebrally into rabbits. By planting filtrates in meat medium, however, virulent cultures have been obtained, and they have shown that the organism is in a filterable form in the human brain, in the rabbit brain, and in cultures.

## INTRAVENOUS, INTRAPERITONEAL, AND SUBCUTANEOUS INOCULATIONS

Although the virulence of the streptococcus is constant when inoculation is made into the brain, rabbits may withstand intravenous, subcutaneous, or intraperitoneal inoculations of 2 cubic centimeters of culture (approximately 80,000 minimal lethal doses) without showing symptoms. Occasionally, however, infection has followed intravenous inoculation. The protocols for experiments in which infection followed intravenous inoculation of strain P-95 are summarized in Table 1.

When death occurred in less than 48 hours after intravenous inoculation the liver was sometimes heavily seeded, whereas the heart blood and lungs were free from, or sparsely seeded with, the streptococcus. In the case of the two rabbits which died on the third day after intravenous inoculation the infecting agent had disappeared from the liver as well as from the heart blood and lungs.

On the other hand, the brain was heavily seeded with the infecting agent in every rabbit which died after intravenous inoculation. When symptoms were observed they were the same kind of nervous symptoms as follow intracerebral inoculation of the organism. In the majority of cases, however, death occurred suddenly without the observation of symptoms.

#### PROTECTION EXPERIMENTS

By subjecting rabbits to a course of three or four treatments of intraperitoneal or intravenous inoculations with living culture they become immunized so that they may withstand heavy intracerebral The protocols for three such experiments are summarized in Table 2. In rabbit 46 the test dose was approximately 10,000 minimal lethal doses, and death was delayed until the sixth day. In rabbit 50 the test dose was 1,000 minimal lethal doses. The rabbit survived, after two or three days of very severe illness. By the eighth day it was again in good physical condition, but the nervous symptoms continued until death occurred, death being due apparently to some cause not related to the experiment. In rabbit 158 the test dose was 100 minimal lethal doses. Slight nervous symptoms were observed on the second day; they were less pronounced on the third day, and by the tenth day recovery was complete. A control rabbit which received the same intracerebral inoculation as rabbit 158 died in 21 hours.

Two more protection experiments are summarized in Table 3. In these experiments the immunizing treatment was with strain P-95 and the test dose was with strain P-104. The protection afforded by the treatment demonstrates the identity of the strain obtained from the nasal washings of the patient with the strain obtained from the heart blood at necropsy.

Although rabbits could be immunized with repeated intravenous inoculations, intracerebral inoculation of a sublethal dose gave no protection. On the other hand, it appeared to increase the susceptibility of the rabbit to subsequent inoculations. The failure of a sublethal intracerebral inoculation to protect was observed in several rabbits which had not shown nervous symptoms following the intracerebral inoculation. Increased susceptibility was apparent in some of these rabbits, but not in all of them. Lack of protection was demonstrated in two rabbits which suffered severe illness with marked nervous symptoms after intracerebral inoculation. The protocols for these rabbits are summarized in Table 4. Rabbits 61 and 67 were inoculated with different cultures, both of which were original cultures planted with the human midbrain. Rabbit 67 showed marked tremors and incoordination on the second day. Three days later it appeared better except for a rotation of the head. Three weeks after

inoculation the rabbit was in good physical condition, and the rotation of the head was reduced. Four weeks after inoculation the rabbit appeared healthy and normal in every way. Three weeks later it was inoculated intracerebrally with culture P-95. Death followed in five hours—more rapidly than it has ever occurred in rabbits which have not previously received a cerebral inoculation. A control rabbit inoculated at the same time died in seven hours.

Rabbit 61 showed nervous symptoms the day after inoculation. For several days there were marked tremors and incoordination, with a temperature of 41.8° C. Two weeks later an improvement in the general physical condition began, but there was increased rotation of the head until the left eye was turned upward, and there were other mild nervous symptoms. Finally, the nervous condition improved slowly. Then, when in good physical condition, with only a slight rotation of the head, six months after the first inoculation the rabbit was again inoculated intracerebrally with strain P-107, diluted 1 to 100. Death followed in 22 hours, whereas the control rabbit lived 43 hours.

In monkey 36 (see the protocol further on) there is possibly another instance of lack of protection by a previous cerebral infection. The symptoms after the first inoculation were so slight, however, that they were questionable. If these slight symptoms were caused by the introduction of virus into the brain, they were the only observed evidence of a virus from the brain of the human case No. 3.

Protection experiments should be carried out to determine whether the streptococcus described in this paper will immunize against the encephalitis viruses which other workers are carrying from animal to animal without the cultivation of an organism between the passages. If cross protection can be demonstrated, a step forward will have been gained. If cross protection can not be demonstrated, the question will not necessarily be settled. It can not be assumed that the protein in the streptococcus is identical with the protein in the minute forms which pass through a filter. This suggestion comes from the "organ specificity" found in higher forms of life.

## HISTOPATHOLOGY OF EXPERIMENTAL ENCEPHALITIS IN RABBITS

Before detailing our results with rabbits it must be recalled that these animals are rather poor subjects for histologic studies on encephalitis because of their liability to spontaneous lesions of the brain. Seven of our eleven control rabbits, killed for other purposes while in apparent good health, showed foci of glia reaction and sometimes rather marked perivascular round-cell infiltration. This finding has been recorded by other investigators, although it is not universally found. The foci of "spontaneous" inflammation are likely to be localized, though in some cases the inflammation is wide-

spread. Occasionally it is seen in the mesencephalon. We can speak of positive results, therefore, only when the inflammatory manifestations in the brain surpass the maximum "spontaneous" inflammation seen in the control animals. The meninges are a more sensitive guide, for they seem not to be involved to any notable degree in the control rabbits.

Of the 16 rabbits studied histologically after inoculation of the streptococcus, all but 2 showed characteristic reactive phenomena in the meninges. These two had lived for about six weeks after intracerebral inoculation of the organism, both having shown symptoms of nervous disorder. One died of peritonitis and the other succumbed within seven hours to a secondary intracerebral inoculation. All the other animals showed meningeal reaction, even within as short a time as 5% hours after intracerebral inoculation or 32 hours after intravenous inoculation. The reaction consisted in thickening of the meninges with edema, and infiltration of their meshes with lymphocytes and polynuclear leucocytes, among which eosinophiles were not infrequent. Often there was great congestion of the smaller vessels, and occasionally there was diapedesis of red blood cells into the interstices of the tissue. In no case was there frank suppuration, nor were any notable amounts of fibrin present. The most marked reaction was observed usually over the dorsum of the mesencephalon where the loose-lying cells were less apt to bedisplaced during technical procedures. There was less inflammation at the

Some inflammatory reaction within the parenchyma of the brain was observed in every case studied, but three of these cases had to be excluded from consideration on account of the slight character of the reaction, coming as it did within normal limits. It appeared within 12 hours after intracerebral inoculation, but was not found in animals that lived six weeks after inoculation even though these animals had shown characteristic nervous symptoms. Signs of old inflammation were to be seen in these animals, however, in an increased density of the cerebral cortex due to neuroglia overgrowth.

When well developed, this encephalitis in the rabbit presented unmistakable features. There was penetration along the sheaths of the vessels entering the cerebral substance from the meninges, of large numbers of lymphocytes, sometimes accompanied by polymorphonuclear leucocytes. There was reactive gliosis of marked proportions in the superficial layers of the cortex where many good examples of microglia cells were to be found. There was apparent condensation of the cortex, due to the large increase in the number of glia cells present, somewhat recalling the picture of dementia paralytica in the human brain. Some nerve cells had lost their chromatin material, others were shrunken and hyperchromatic. Many showed swollen outlines.

Satellitosis was frequent. The inflammation extended over the cerebral cortex in a diffuse manner, never localizing into abscesses. The most marked lesions were usually in the cerebral cortex (see fig. 10). In the deeper areas it was not rare to encounter vessels surrounded by thick collars of lymphocytes and polymorphonuclear leucocytes. In some cases the mesencephalon seemed to be particularly seriously invaded. The substantia nigra, which is the part of the human brain bearing the brunt of the attack, did not show any serious alterations, although in some instances there was an inflammatory reaction in the neighborhood. The cerebellum and medulla oblongata on the whole showed less marked inflammatory reaction, although there was considerable swelling and chromatolysis of the nerve cells.

The other organs investigated—heart, lung, liver, and kidney—showed no characteristic lesions after either intravenous or intracerebral inoculation. Congestion and albuminous degeneration were manifest, but no foci of inflammation. No instance of bronchopneumonia was encountered. Sometimes there appeared to be some increase in the number of round cells in the perilobular tissues in the liver, but this was also seen in control animals, even in the absence of coccidiosis. The muscles were not investigated histologically, but grossly they showed no specific alterations.

On the whole the reaction of the tissues in the central nervous system resembled the reaction in acute encephalitis in man to a pronounced degree. The election of the cortex in preference to the mesencephalon and the presence of numbers of leucocytes were the only outstanding differences.

#### EXPERIMENTAL ENCEPHALITIS IN MONKEYS

The pathogenicity of the streptococcus was tested on four monkeys. The complete records of the disease in these monkeys are presented below.

## MONKEY 36

7-21-25: Inoculated intracerebrally with about 1 cubic centimeter of emulsion of the mid-brain of Case 3. Three days later he was observed to be sluggish and pale. Slight spasmodic movements resembling hiccoughs were observed. The next day he had recovered, and no further symptoms were observed.

9-28-25: Inoculated intraperitoneally with 2 cubic centimeters of culture P-95 (8)². No symptoms followed.

10-14-25, 1. 30 p. m.: Inoculated intracerebrally with 0.5 cubic centimeter of culture P-95 (9). At 4 p. m. the monkey appeared normal.

10-15-25, 9 a. m.: The monkey was found dead. At autopsy a purulent discharge at the nose was observed. Heart blood, liver, lung, and brain were planted.

² The figure in parenthesis following the description of the inoculum designates the number of rabbits the strain had passed through previous to the inoculation of the monkey.

10-16-25: Cultures show that heart blood and lung were sparsely seeded, and liver and brain were heavily seeded with P-95.

Grossly the internal organs and the brain showed no lesions. Microscopically the heart showed swelling and granularity of the cytoplasm of the muscle fibers, with loss of cross striation. There were no infiltrations. The spleen and kidney appeared normal. Except for congestion the lungs were normal.

Over the cerebral cortex the meninges were congested and somewhat infiltrated by lymphocytes and endothelial cells, with here and there a small number of polymorphonuclear leucoytes. There was some free blood in the meninges, but this might have occurred consequent to removal of the brain. Along the sheaths of the vessels penetrating into the cerebral substance from the pia mater there were found a small number of lymphocytes, and some of the deeper vessels were also involved in the same manner. There appeared to be some mobilization of neuroglia cells, amoeboid forms being present in the upper layers of the cortex. The nerve cells of the cortex showed considerable swelling and loss of chromatin bodies but rupture of the cells or definite disease of the nuclei was not The nerve cells of the basal ganglia and thalamus were swollen and showed chromatolysis. In these parts there were no inflammatory manifestations, but the hypothalamus showed marked perivascular round-cell infiltration and congestion of the vessels. Acute cellular degenerative changes were prominent, although there was but slight neuroglia reaction. The cerebellum and medulla oblongata showed only mild chromatolysis and satellitosis of the ganglion cells.

#### MONKEY 31

In April, 1925, this monkey had been inoculated in the carotid artery with 1 cubic centimeter of a coccus culture obtained in a study of poliomyelitis. No symptoms followed.

10-21-25: Inoculated intracerebrally with 0.5 cubic centimeter culture P-95 (10) diluted 1 to 200. No symptoms followed.

11-13-25: Inoculated intraperitoneally with 2 cubic centimeters culture P-95 (14).

11-14-25: Inoculated intraperitoneally with 2 cubic centimeters culture P-95 (14).

11-17-25: Inoculated intraperitoneally with 2 cubic centimeters culture P-95 (14).

11-18-25: Inoculated intraperitoneally with 2 cubic centimeters culture P-95 (14).

11-19-25: Inoculated intraperitoneally with 2 cubic centimeters culture P-95 (15).

11-20-25: Inoculated intraperitoneally with 2 cubic centimeters culture P-95 (15).

11-21-25: Inoculated intraperitoneally with 2 cubic centimeters culture P-95 (15).

11-23-25: Inoculated intracerebrally with 0.25 cubic centimeter culture P-95 (15).

No symptoms followed any of these inoculations.

An injection of culture equal to the final dose proved fatal to an untreated monkey. (See monkey 38, below.) Therefore the conclusion seems warranted that monkey 31 had been immunized by the previous treatment.

#### MONKEY 38

11-23-25, 3.35 p. m.: Inoculated intracerebrally with 0.25 cubic centimeter culture P-95 (15).

11-24-25, 9.15 a.m.: "The monkey shows some pallor, with cyanosis of the scalp. He is sluggish, must be roused to activity, and then shows tremors.

No difference is noted in the face. The left arm is held in flexion and partial pronation, the fingers inclosing the thumb. The limb seems hypertonic rather than flaccid and is searcely used at all. When moved it shows moderate tremors. The left leg is weak. During the examination the animal fell over on its left side and lay there."

Noon: "The monkey is sitting up but shows marked tremors when attempting to move."

3.30 p. m.: "Sitting up in corner of cage, the head drooping forward on the chest, apparently dozing.

4 p. m.: "Convulsions."

5.15 p. m.: "Found lying down. When light is turned on he rouses quickly, but almost immediately closes his eyes and pays little attention to what is going on. He is easily aroused by noises or by light flashed on him. The same weakness and lack of movement of the left arm and leg are noticed, but there is nothing significant in the face. The pupils are equal and react to light. There is no nystagmus. When sitting up he lets his head fall forward, assumes a hunched position, and goes to sleep."

11-25-25, 9 a. m.: "Very weak. He can sit up when aroused, but soon falls over, always on the left side. Tremors are less marked. Temperature, 36.8°."

3.30 p. m.: "Lying motionless, with eyes closed. The monkey is easily roused, looks brightly at the examiners, but does not try to move, and almost immediately closes his eyes again. The breathing is normal in rate and depth."

11-26-25, 12.45 p. m.: "Animal lies motionless, with eyes closed. When his right hand is touched with the stick he clutches it with a good grip, but without opening his eyes. He is roused with greater difficulty. Once with the aid of the stick he pulled himself up to a sitting position, using his right hand alone, but he fell over almost immediately."

No further convulsions were noted. The animal died during the night.

Heart blood, liver, lung, and brain were planted.

11-28-25: No growth from heart blood. Lung sparsely seeded, liver heavily seeded, and brain very heavily seeded with P-95.

At the necropsy the blood vessels of the subcutaneous tissue and omentum were found congested, the lungs showed hypostatic congestion without pneumonia, the heart muscle was rather soft, but the liver and kidney showed no appreciable gross changes. The leptomeninges were markedly congested, but there was no purulent exudate visible. The brain was somewhat soft. Section through the cerebrum revealed many small red points of congested vessels in various parts. In the basal ganglia, however, there were large areas of irregular reddish-stained tissue with yellowish surroundings. The brain substance was soft in this area but not diffluent. The reaction was more marked on the right side, but quite pronounced upon the left. Sections through the cerebellum and medulla disclosed no similar areas of hemorrhagic encephalitis.

Microscopically the heart showed severe toxic changes and several foci of lymphocytic infiltration, an acute interstitial nonsuppurative myocarditis. The lungs, in addition to some old foci of fibrosis, showed only congestion, without polynuclear infiltration. The spleen showed large germinal follicles and congestion, the kidt ey rather marked degeneration of the tubular epithelium but no abscess formation. The meninges of the cerebrum showed marked infiltration by leucocytes, distention of the veins, and moderate escape of crythrocytes into the meshes of the tissue. The cerebral substance was edematous. The cerebral cortex showed rather severe toxic changes, swelling of ganglion cells and fragmentation of chromatin granules, and some glia mobilization. There was also infiltration of the sheaths of the vessels by adventitious cells, polymorphonuclear leucocytes predominating. In the

putamen there were many areas of focal hemorrhage, with necrosis of all cerebral tissue, complete degeneration of the nervous elements, abundance of ameboid and phagocytic neuroglia cells, many of which were also degenerated, and infiltration by large numbers of leucocytes. In addition there were areas of leucocytic infiltration, which appeared to be going on to abscess formation. The endothelium of vessels was swollen and their vascular sheaths were packed with leucocytes and round cells. Microorganisms were visible singly and in groups, sometimes in curved chains. Some large coccoid bodies were found staining pale blue with azure. The glia cells showed abundant granules in their cytoplasm, some of which were recognizable as cocci, others of which were disintegrating. Coccoid bodies were found within glia cells in a few instances. No definite similarity to Negri bodies was to be observed, however, and the ganglion cells did not contain foreign bodies.

The inflammation was most marked in the putanen, next in the cerebral cortex and tectum mesencephali, less in the thalamus, hypothalamus, locus niger, and scarcely at all in the cerebellum and medulla oblongata. The choroid plexus was also the seat of leucocytic infiltration, and the ventricular cavities contained numerous leucocytes.

This picture differed considerably from that found in human encephalitis in that leucocytes were numerous and hemorrhages had occurred in the basal ganglia. It was more like the policencephalitis hemorrhagica described by Wernicke. The explanation may lie in the greater virulence of the organism or in the peculiarity of the reaction of the tissues of the monkey, but is probably found in the early stage at which death occurred. There was no abscess at the site of the inoculation, and the lesions were about equally severe on both sides.

#### MONKEY 39

12-1-25, 3.45 p. m.: Inoculated intracerebrally with 0.25 cubic centimeter culture P-107 (7).

12-2-25, 9 a. m.: "Monkey has been rather hard hit. He shows marked tremors in voluntary movements. Every minute or two he yawns, stretching his mouth to the fullest extent. This is apparently an involuntary, forced action. The eyes are somewhat protruded and staring, move fully and concertedly without nystagmus, but rove about rather wildly. The hind quarters appear somewhat disabled, although the animal was not taken from the cage for demonstration of this point."

11.30 a. m.: "The animal is found crouched in the cage, his face touching the floor. When roused, he sits up, looks alertly around him, and yawns; and when left alone he sinks forward on the floor again and dozes. Temperature 38.4.° n

12-3-25, 9 a. m.: "He is found wide awake, eating, leaning up against the side of the cage for support. The right hind limb is crumpled under him in a helpless manner. There are moderate tremors and incoordinated movements."

12-3-25, 3.55 p. m.: "Animal lies motionless in a crouched position, his head resting on the water cup. He blinks his eyes frequently at the observer but makes no attempt to get up. No ocular paralyses are observed."

Same day, 4.15 p. m.: "Dead. Placed in ice box."

12-4-25: At autopsy the brain was found congested, but no other lesions were observed. Heart blood, liver, lung, and brain were planted.

12-5-25: No growth from heart blood or liver; lung sparsely seeded, brain heavily seeded with P-107.

The gross and microscopic lesions in the case of this monkey resembled so closely those found in monkey 38 that no further description is considered necessary. There was, perhaps, slightly less reaction on the part of the neuroglia and the

suppurative process had gone forward to a somewhat less extent. The nature of the inflammation in the two cases was exactly similar. The inflammatory reaction about the aqueduct of Sylvius is shown in fig. 11, pl. IV.

#### SUMMARY

A pleomorphic streptococcus, highly virulent for rabbits when inoculated intracerebrally, was obtained from the nasal washings, heart blood, and mesencephalon of a case of epidemic encephalitis.

In so far as the comparative tests have been made, this streptococcus agreed with the streptococci obtained from cases of epidemic encephalitis by Von Wiesner and by Rosenow. Apparently several other investigators have cultivated the same organism in their studies of the disease.

When inoculated intravenously into rabbits the streptococcus shows a tendency to elective localization in the brain.

In rabbits and in monkeys it produces nervous symptoms which in some cases simulate the disease in man.

Rabbits inoculated with this streptococcus show no inflammatory lesions outside of the central nervous system. The meninges are heavily infiltrated with lymphocytes and leuocytes, the inflammation spreads to the cerebral substance by direct extension and along the small vessels, penetrating into the brain. There are severe parenchymatous degenerative changes in the nervous tissue and reaction of the neuroglia. The sheaths of the blood vessels are found infiltrated by lymphocytes. The reaction is sometimes most marked in the mesencephalon.

In monkeys there is noted a greater tendency toward leucocytic reaction, and in two instances large areas of hemorrhagic inflammation in the basal ganglia were noted.

Acknowledgments: The writers are indebted to Maj. G. R. Callendar Medical Corps, United States Army, Curator, Army Medical Museum for making photomicrographs 2-5, and to Miss Marguerite F. Wilcox, Bureau of Plant Industry, United States Department of Agriculture, for photomicrograph 6.

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Table 1,—Results of intraperitoneal and intravenous inoculation of rabbits with strain P-95

			٧			The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	
Rab- bit No.	Pas- sage No.	Date of in- oculation	Condition of culture	Mode of inocu- of inoc- lation culum	Amount of inoc- culum	Result	Bacteriologic findings
19	89	Aug. 14, 1925	24-hour culture; third culture generation from heart blood of rabbit 38	Intravenous	C. c.	c. Dead, 42 hours	Brain and liver heavily seeded with P-95.
\$	63 At	do 18, 1925	do diture, second culture generation	Intraperitoneal	550	No symptoms do.	
	10	Aug. 21, 1925	nom nyet of radout so. 24-hour culture planted with brain ofdorabbit 71.	qo	2.0	Head retracted; stiffness of limbs; finally loss of use of hind legs. Chlo- roformed when dying, 69 hours after last inoculation.	No growth from heart blood or liver, hing sparsely sected with an extraneous coccus (not virulent when increased intracerbally into rabbits); but the homit coch at the bottle conditions of the complexity of the complexity of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the
156	4	Oct. 10, 1925	29-day culture planted with brain ofdo	ф	1.0	1.0 No symptoms	Digit meavily secured with L. Do.
	2		rabbit 111. 6-day culture planted with brain of rab- bit 146.	qo	2 0	2 0   Dead, 32 hours	Heart blood and lung sparsely seeded, liver moderately seeded, and brain government book
196	12	Nov. 5, 1925	7-day culture planted with brain of rab-	Intraperitoneal	. 2.0	2.0 No symptoms	reig meavily seeded with 1 -50.
	13	Nov. 9, 1925	Du 1/9. 2-day culture planted with brain of rab- bit 195.	Intravenous	5.0	Hind legs paralyzed, Continuous clonic movements of fore legs and	No growth from heart blood or lung, liver sparsely seeded, brain very
261	44	Nov. 28, 1925	24-hour culture planted with brain of rabbit 241.	qo	٠.	.5 Dead, 46 hours.	Heart blood, no growth; liver and lung very sparsely seeded, brain very
282	741	ф	ор	ф	٠.	.6 Dead, 41 hours	neavily secued with 1-30.  Heart blood and lung no growth; liver and brain heavily seeded with P-95.

Table 2.—Experiments to show protection of rabbits against intracerebral inoculation 1

• .								_									
Bacteriologic findings				No growth from heart blood, liyer, or lung. Brain sparsely seeded with	r-90.				No streptococci from heart blood, liver, lung, or brain. Brain was sparsely seeded with a staplylococcus.								
Result	No symptoms	op	ор		retracted when at rest. (See Hg. 9.) Chloformed when dying, 6 days after last inoculation.	No symptoms	No symptoms	No symptoms	Tremots, incoordination, head re- tracted, temperature 42° C. on sec- ond dsy. Recovered except for in-	creasing distortion of head, until finally right eye was turned toward the left. (See fig. 7.) Could not walk the left.	of peritonitis 41 days after last in-	No symptoms		qo	do	On second day weakness, tremors, stiffness of limbs. Complete re-	covery by the tenth day.
Amount of in- oculum	0.5	2.0	2.0	8		2.0	2.0	2.0	<b>સ</b>			2.0	2.0	2.0	2.0	88	
Mode of inoculation	Intravenous	ф	qp	Intracerebral	-	Intraperitoneal	Intravenous	ор	Intracerebral	<b>1</b>		Intravenous	qo	op	ap	Intracerebral	_
Condition of culture	24-hour culture, third culture generation Intravenous		with brain of	24-hour culture planted with brain of Intracerebral		24-hour culture, third culture generation		with brain of	Received the planted with brain of Intracerebral			14-day culture planted with brain of Intravenous	re planted with brain of	planted with brain of	planted with brain of	Feder culture planted with brain of Intracerebral.	
Date of in- oculation	Aug. 14, 1925	Aug. 18, 1925	Aug. 21, 1925	Aug. 25, 9125		Aug. 14, 1925	Aug. 18, 1925	Aug. 21, 1925	Aug. 25, 1925			Oct. 10, 1925	Oct. 14, 1925	Oct. 15, 1925	Oct. 16, 1925	Oct. 20, 1925	
Pas- Sago No.	60	4	10	9		.00	*	, ,	40			<u></u>	6	Ġ,	9	2	
No.	\$					28			Maril Advisora	***************************************		158		· · · · · · · · · · · · · · · · · · ·	,	<del>- 11 - 11</del>	-
	3																٠,

As controls for rabbits 50 and 138, 1 rabbit (third passage) inoculated with a 1 to 10 dilution of P-95 died in less than 18 hours; 4 rabbits (passages varying from the fourth to the affection with 1 to 100 dilutions died between the eighteenth and thirtieth hours; 2 rabbits (fifth and eighteenth passages) inoculated with 1 to 1,000 dilutions died in 41 and 22 hours, respectively.

A control rabbit inoculated at the same time as rabbit 138, with the same inoculatin, died in 21 hours. l Controls: As controls for rabbit 46, 10 rabbits were inoculated with undiluted culture of P-95, the passage numbers varying from the third to the seventeenth. In every case death resulted in less than 18 hours.

Table 3.—Identification of strains P-95 and P-104 by cross protection. Immunizing treatment was with strain P-95, given intravenously or intraperitoneally; the test dose was with strain P-104, given intracerebrally

Untreated rabbits (controls)	Rab	bit Result N o.	6 (d days after last intra- 19-day culture di- 10. Recovered on the second day. 178 Hind legs slightly stiff a month after inocula-	Complete recovery 239 Dead, 16 hours.
	lation	Result	Slight symptoms on the da- tion. Recovered on the se	Slight nervous symptoms.
Treated rabbits	Treated rabbits Test inoculation	Condition of cul- ture	19-day culture di luted 1 to 10.	30-day culture
		Date	Oct. 27, 1925 (4 days after last intravenous inoculation).	Nov. 24, 1925 (6 days after last intravenous inoculation).
	No. of	bit mun- No. izing doses	4	색
	Rap	#S	155	197

Table 4.—Rabbits which survive a brain infection are not protected against subsequent inoculation

Num- ber of	hours to death of control rabbit	43
	Result	Dead, 5 hours Dead, 22 hours
Fatal inoculation	Inoculum	12-day culture of P-95 (ninth passage). 13-day culture of P-107 diluted 1 to 100 (twelfth passage).
	Date	Oct. 7, 1925 Feb. 16, 1926
tion 1	Result	3-day culture planted with human Nervous symptoms with complete Det. 7, 1925 12-day culture of P-95 (ninth pas- Dead, 5 hours 2-day culture planted with human Severe illness with marked nervous symptoms, and final recovery. (See text, pp. 1106, 1107.)
Preliminary inoculation 1	Inoculum	3-day culture planted with human mesencephalon. 2-day culture planted with human mesencephalon.
	Date	67 Aug. 18, 1925 61 Aug. 17, 1925
,	No.	69 63

1 All inoculations were intracerebral, with 0.25 cubic centimeter of culture.

## PUBLIC HEALTH ENGINEERING ABSTRACTS

Greater Travel Causes Demand for More Comfort Stations. Anon. The Nation's Health, Vol. 8, No. 2, February 15, 1926, pp. 110-112. (Abstracted by C. G. Gillespie.)

Michigan, Minnesota, and Wisconsin laws require cities and villages to erect and maintain public comfort stations. In Minnesota there are 385 tourist resorts, all provided with public comfort stations. Gas filling stations maintain 1,800 additional such stations. In Wisconsin 469 municipalities have comfort stations ranging from 1 or 2 per 5,000 people to 10 to 30 for cities with populations of 400,000. One toilet bowl for each 1,000 females served, one toilet seat and one urinal for each 1,000 males, and one lavatory for each set of toilet fixtures are provided. Many communities are meeting the problem in a satisfactory manner by building suitable, creditable buildings.

Safeguarding the City's Milk Supply. H. C. Becker, Director of Tuberculosis Eradication, Chicago Department of Health. Chicago Municipal Tuberculosis Sanitarium Bulletin, Vol. 6, No. 1, January, 1926, pp. 1-5. (Abstracted by Isador W. Mendelsohn.)

Chicago's milk supply is obtained from about 300,000 cows on 25,000 farms, located in northern Illinois, southern Wisconsin, northwestern Indiana, and southwestern Michigan. About 1,250,000 quarts of milk are consumed daily in the city. The sanitary production of this milk on the farms is supervised by Chicago health department inspectors, traveling in automobiles. Unless corrections are made where insanitary conditions exist, the milk is barred from entry into the city. The cooperation of the local health authorities and physicians is secured where possible in reporting and properly handling communicable diseases occurring among the 100,000 persons living on the farms supplying milk to Chicago.

The milk is transported over 25 steam and electric railroads and by auto trucks to creameries in the country or in Chicago, where the milk is pasteurized and bottled. Milk samples are collected by the health department inspectors, and chemical, bacterial, temperature, and sedimentation tests are made.

The 511 milk dealers in the city use about 4,000 wagons and auto trucks in delivering milk to the consumers. All persons selling milk in the city must be licensed by the health department.

Studies on Pasteurization. William T. Johnson, jr., Assoc Bacteriologist, Dairy Bureau, United States Department of Agriculture, Grove City, Pa. Second Annual Report, 1926, Pennsylvania Association of Dairy and Milk Inspectors, pp. 122-126. (Abstracted by H. A. Whittaker.)

The writer gives some recent laboratory experiments on a number of representative *Bacillus coli* organisms in order to determine their ability to withstand pasteurizing temperatures. It is concluded from these experiments that a pasteurizing temperature of 145° F., held for 30 minutes, was a critical temperature for the colon organism, and that some strains do actually survive pasteurizing temperatures.

The author also brings out the difference between "majority" and "absolute" thermal death points of organisms as applied to pasteurization. Reference is made to certain experiments conducted on *Bacillus aerogencs* to show what a wide discrepancy exists between these two temperatures. The following statement is made relative to this subject:

Since all nonspore-bearing bacterial cells are similar to *B. aerogenes* in this respect, it is quite important that the selection of an effective pasteurization temperature must be based on the "absolute" thermal death point of pathogenic organisms, determined under laboratory conditions and in milk. Large scale efficiency tests are not necessary, and are likely to be misleading and wrongly interpreted, so as to give a false sense of safety. Knowing the "absolute" thermal death point of pathogenic organisms, the most valuable work for the future, in connection with pasteurization, will be a study of the temperatures obtained in commercial practice, and the development of suitable instruments for determining that all of the milk in a given pasteurizing process is heated to a point which will provide a safe margin above the "absolute" death point of pathogenic organisms.

Algæ. W. C. Purdy, Plankton Expert, United States Public Health Service. Water Works, Vol.63, No. 1, January 14, 1925, p. 115. (Abstracted by W. C. Purdy.)

Visible mats and masses of the larger algae are common in streams and sometimes in water reservoirs. The microscopic forms, however, are the most likely to give trouble by producing tastes or odors, or by clogging filters.

Copper sulfate is not always successful in combating algal growth. Chlorine has been used with good results where CuSO₄ has failed.

Sir A. C. Houston suggests a coagulant, to be followed by lime, the latter to remove any CO₂ present, as this gas is a food material for alga. Another worker tried CuSO₄, also excess lime, with poor results. Then sulfuric acid was used in sufficient amount to neutralize all bicarbonates present, thereby removing this source (bicarbonates) of CO₂ for algal food. Good results followed this plan.

Algae may be an actual asset to the water on account of the excess oxygen they produce by photosynthesis, this oxygen being available for aerobic bacterial decomposition of organic matter. The extensive plant-filled shallow portions of the Potomac River were found to produce sufficient oxygen in this way to be a very material help in the oxidation of Washington sewage.

This production of excess oxygen is shared by the microscopic algae also, or the phytoplankton. The plankton of some streams

consists chiefly of these minute plants, rather than of animals. Nearly a thousand weekly samples taken from the Illinois River at various points over a period of 14 months show a plant content of 65 to 95 per cent of the total plankton. Thus, even a minute portion of water may possess a microscopic but efficient "Home Guard" which, cooperating with its allies of aerobic bacteria, will successfully compete with invasions of organic matter.

Prevention of Stream Pollution Profitable. Anon. Domestic Engineering, Vol. 114, No. 11, March 13, 1926, p. 66. (Abstracted by Arthur P. Miller.)

This short article points out that, in Michigan, the prevention of stream pollution is a profitable procedure. The elimination of the polluting matter is being accomplished not only at a gain in public health and a saving to aquatic life, but at an eventual profit to those concerns that have been causing the pollution. Several examples are pointed out, as, for instance, the tanneries, which have taken steps to recover hair and fertilizer that has been going into the rivers for years. The hair is recovered and sold for \$75 a bale, while the fertilizer is in great demand. A paper mill has been dumping its waste water, pulp, and acid into a southern Michigan river, and it is said has spent \$50,000 for waste treatment research but already this company is recovering from experimental work alone an average of \$5,000 per year.

Zeolite Serves Twenty Months Without Changing. F. B. Beech. Water Works Engineering, Vol. 79, No. 3, February 1, 1926, pp. 147-148. (Abstracted by A. H. Wieters.)

The writer describes a zeolite water-softening plant installed by the Ohio Valley Water Co. A small plant was installed in 1922 for the purpose of softening the boiler feed water and for experimental purposes. This plant paid for itself in 10 months, and after 404 days of continuous operation the zeolite was removed and showed no appreciable alteration except a slight increase in manganese content.

The article describes in detail the zeolite used. This is the "green sand," or glauconite, found chiefly in New Jersey. The theory of zeolite softening is also described in detail.

It was found that a rate of 6 gallons per square foot per minute produces water of 0 hardness where the water contains not more than 16 grains of hardness. Harder waters required lower rates. Changes in the method of salt application resulted in the lowering of the amount of salt used for ½ to ½ pound of salt per 1,000 grains of hardness removed.

No cost data were given except the statement that the cost was practically the same as for the lime-soda process. A typical analysis of the water is given showing, among other things, a reduction of the hardness from 151.4 to 0 in p. p. m.

The advantages of this process over the lime-soda process are noted as follows: Removal of manganese and grenothrix; more complete softening; requires far less space; more flexible and certain; and does not require a highly-trained operator.

## COURT DECISIONS RELATING TO PUBLIC HEALTH

Right of regents of University of California to require that students be vaccinated upheld.—California First District Court of Appeal; Wallace v. Regents of University of California et al., 242 P. 892; decided November 20, 1925.) A rule imposed by the regents of the University of California required that every person in attendance as a student at said institution should provide satisfactory evidence to the authorities in charge that he or she had been successfully vaccinated against smallpox within seven years prior to application for admission. Petitioner in this case was refused admission as a student because of failure to comply with the vaccination requirement. He applied for a peremptory writ of mandate to compel the university authorities to admit him, claiming that the regents had no authority to exact such a requirement and that the regulation was invalid and contrary to existing general law. Chapter 370, Laws of 1921, provided that "The control of smallpox shall be under the direction of the State board of health, and no rule or regulation on the subject of vaccination shall be adopted by school or local health authorities." It had previously been held that the board of regents, under section 9 of article 9 of the State constitution, had, at the time the rule in question was promulgated, power to adopt and enforce regulations concerning health measures and to require vaccination as a prerequisite to the admission of a student to the university, as at that time there was an absence of legislation lawfully limiting the exercise of that power. The court decided in favor of the university and denied the writ of mandate, the reasons therefor being shown by the following quotation from the opinion:

There is no question but that the legislature may under its police power limit or abrogate this right [of the regents to adopt health regulations and to require vaccination], and in fact respondents do not claim otherwise, for they concede that the power vested under the constitution in the regents is not so broad as to destroy or limit the general power of the legislature to enact laws for the general welfare of the public, including laws regulating the subject of vaccination, even though it might incidentally affect the University of California, as such a law would be paramount as against a rule of the regents in conflict therewith. They do claim, however, that no such law exists, as neither the legislature nor the board of health under its grant of power has attempted to pass any law or rule which in any manner contravenes the regents' regulation in reference to the matter since the passage of the act of 1921.

The present law [chapter 370, Laws of 1921] does not itself attempt to regulate the subject, but it merely delegates to the board in question certain powers. Whatever rights this body may have under this grant of power is a matter with which we are not here concerned, for it has made no attempt to exercise any power whatsoever. The legislative declaration that no rule or regulation shall be adopted by school or local health authorities is not a regulation, nor, in fact, is it a health law, but rather, under the circumstances, it is one in effect which forbids or prevents the adoption of a health measure, at least until such time as a rule or regulation on the subject has been adopted in conformity with the provisions of the act.

In so far as the act may be considered as a prohibition or limitation upon the constitutional power of the university to pass health laws, it is clearly void. The legislature can not, by this character of a general law, take away or impair the power so granted. In order to accomplish this result it must itself regulate the subject by appropriate legislation. A general law which does not itself regulate, but which merely provides, as here, that there shall be no local regulation, can have no proper application to local bodies deriving their powers under a constitutional grant, as such law amounts to no more than a legislative attempt to nullify such constitutional grant, and it is to that extent invalid.

· County not liable for expense of sanitary work not authorized by county board of health .- (Montana Supreme Court; Pue v. Lewis and Clark County, 243 P. 573; decided January 23, 1926.) The plaintiff brought an action against Lewis and Clark County to recover for the value of certain sanitary work performed by him in cleaning vaults, etc. This work was done at the direction of the county health officer, who, however, had not received authorization for the doing of the same from the county board of health. It was also shown that the county health officer had assumed to appoint a deputy county health officer who took part in the inspection of premises to be cleaned. The lower court granted a nonsuit on the motion of the defendant, on the ground that no authority had been disclosed, either in the county health officer or so-called deputy county health officer, to incur the indebtedness upon which the complaint was based. The supreme court affirmed the judgment of the lower court, holding that, under the statutes, authority to perform such work was required to be given by the county board of health. The court stated that since the county health officer "did not seek and was not granted authority from the county board of health to enter into the contract or incur the expense made the basis of plaintiff's cause of action, he had no authority to make the contract or incur such expense, and consequently the plaintiff wholly failed to prove the contract set out in his complaint." The court also stated that no authority had been discovered in the statutes for the appointment of a deputy health officer.

Evidence held not sufficient to show that water furnished was cause of typhoid fever.—(Washington Supreme Court; Webber et ux. v. Pacific Power & Light Co., 242 P. 1104; decided February 10, 1926.) The

plaintiffs, husband and wife, sought to recover damages from the defendant company on the ground that the wife's illness with typhoid fever was due to the use of infected water furnished by the defendant. A jury returned a verdict for the plaintiffs and judgment was entered thereon. On appeal the supreme court held that the evidence was insufficient to show that the wife's illness was caused by the water furnished by the defendant.

Tuberculosis held compensable under workmen's compensation act.—
(Texas Court of Civil Appeals; Aetna Life Ins. Co. v. Graham et al., 279 S. W. 923; decided December 24, 1925.) One of the points decided in this case was that tuberculosis, developing from an irritated condition of the nose, throat, and lungs caused by the inhalation of fumes incident to the mixture of chemicals in making shoe polish, was a compensable injury under the Texas workmen's compensation law.

Town held liable for damages caused by sewage pollution of stream.—
(North Carolina Supreme Court; Cook et al. v. Town of Mebane, 131 S. E. 407; decided January 27, 1926.) One of the grounds of complaint in this case was that the town of Mebane by the discharge of sewage had polluted the stream which flowed through the land of plaintiffs to the damage of their land and mill site. The jury found for the plaintiffs and the judgment of the lower court thereon was affirmed by the supreme court.

Damages allowed for illness resulting from sight of dead cockroaches in pie being eaten.—(New York Supreme Court, Appellate Division; Carroll v. New York Pie Baking Co., 213 N. Y. S. 553; decided January 22, 1926.) The plaintiff, while eating a piece of pie cut from a pie made by the defendant, discovered that several crushed cockroaches were imbedded in the bottom crust of the pie. The sight of them made her ill and action was brought to recover damages on account of the illness. A judgment for plaintiff, entered on the verdict of a jury, was affirmed by the court.

City meat inspection ordinance held valid.—(Maryland Court of Appeals; Mayor and City Council of Baltimore et al. v. Bloccher and Schaff (Inc.), et al., 132 A. 160; decided January 14, 1926.) Ordinance No. 431, adopted on June 25, 1925, by the city of Baltimore and regulating the slaughtering, etc., of animals for human food, was attacked on the ground that it infringed constitutional provisions, but the court held the ordinance to be a valid and constitutional exercise of legislative power by the mayor and city council of Baltimore.

## Examinations for Entrance into the Regular Corps of the Public Health Service

Examinations of candidates for entrance into the Regular Corps of the United States Public Health Service will be held at the following-named places on the date specified:

Washington, D. C., July 12, 1926.

Chicago, Ill., July 12, 1926.

New Orleans, La., July 12, 1926.

San Francisco, Calif., July 12, 1926.

Candidates must be not less than 23 nor more than 32 years of age, and they must have been graduated in medicine at some reputable medical college, and have had one year's hospital experience or two years' professional practice. They must pass satisfactorily oral, written, and clinical tests before a board of medical officers and must undergo a physical examination.

Successful candidates will be recommended for appointment by the President, with the advice and consent of the Senate.

Requests for information or permission to take this examination should be addressed to the Surgeon General, United States Public Health Service, Washington, D. C.

## DEATHS DURING WEEK ENDED MAY 22, 1926

Summary of information received by telegraph from industrial insurance companies for week ended May 22, 1926, and corresponding week of 1925. (From the Weckly Health Index, May 26, 1926, issued by the Bureau of the Census, Department of Commerce)

ment of commerces	Week ended May 22, 1926	Corresponding week 1925
Policies in force	63, 426, 726	59, 943, 647
Number of death claims	12, 655	11, 906
Death claims per 1,000 policies in force, annual rate.	10. 4	10. 4

Deaths from all causes in certain large cities of the United States during the week ended May 22, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, May 26, 1926, issued by the Bureau of the Census, Department of Commerce)

		ded May 1926	Annual death rate per		under 1	Infant mortality
City	Total deaths	Death rate !	1,000 cor- respond- ing week 1925	Week ended May 22, 1926	Corre- sponding week, 1925	rate, week ended May 22, 1926 ³
Total (64 cities)	7, 329	13. 3	12. 9	858	860	2 71
Akron Albany 4 Atlanta. White.	36 35 81 27 54	15. 3	16. 8	5 1 6 2	6 5 13	53 21
Colored Baltimore '- White Colored	54 259 191 68	(5) 16. 7*	15. 1	4 33 19 14	19	96 68 227

¹Annual rate per 1,000 population.

²Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.

²Data for 62 cities.

Deaths for week ended Friday, May 21, 1926.

1 Deaths for week ended Friday, May 21, 1926.

1 In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31, Baltimore 15, Birmingham 38, Dallas 15, Forth Worth 14, Reuston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Riebmond 32, and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended May 22, 1926, infant mortailty, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, May 26, 1926, issued by the Bureau of the Census, Department of Commerce)—Continued

	Week en		Annual death	Deaths ye	under 1 . ar	Infant mortality
City	Total deaths	Death rate	rate per 1,000 cor- respond- ing week 1925	Week ended May 22, 1926	Corre- sponding week, 1925	rate, week ended May 22, 1926
Birmingham	72	17.8	19. 0	4	9	
White	26			1 3		
Colored Boston	46 245	(5) 16. 2	15. 5	24	40	68
Bridgeport	33			5	2	85 108 83 34
Buffalo	159	15.2	12 6	26	20	108
Cambridge	36	15.4 15.1	10. 0 10. 9	5 2	3	83
Chicago 4	38 659	11.3	11.5	62	81	55
Chicago 4	140	17.8	15.8	14	13	55 87
Cleveland	194	10.5	10.2	30	24	78 73
Columbus	66	12.1	12.5	8	7 6	73
DallasWhite	45 32	11.7	11.9	8 7 5	0	
Colored	13	(5)		2		
Denver	59	10.8	14.5	1	9	
Des Moines	26	9.3	14.0	1 60	4 55	17 97
Detroit Duluth	349	14. 1 9. 2	11. 2 8, 0	3	0	70
El. Paso Erie	36	17. 2	20.9	8	11	
Erie	32 26			3	2	67
Fall River 4	26	10.3	10.5	4 7	3	58 116
Flint	35 28	13.3 9.2	8.0 14.0	6	3 5	110
Fort Worth	20	5. 2	14.0	2 2 0	1	
Colored Grand Rapids Houston	8 31	(5) 10. 4		0	9	87
Grand Rapids	31	10.4	14.9	6	9	87
White	54 31			8 5	9	
Colored	23	(8)		3		
Indianapolis	105	(8) 14.9	11.6	9	7	66
White	88 17 38 17			8 5 3 9 8		68 55
Colored Jacksonville, Fla	39	20. 5	15. 3	6	4	125
White Colored Jersey City. Kansas City, Kans. White.	17	20.0	1	3 3	1	98 172
Colored	21 66 23 17			3		172
Jersey City.	00	10.8	11.6	10	11	71 35
White	17	10.3	11.7	1	1	21
		(6)		1		21 131
Kansas City, Mo Los Angeles Louisville White Colored Lovel	97	(6) 13. 5	13. 3	14	7	
Los Angeles	216 85	14. 3	14.5	19	82	53
White	61	14. 5	14.0	8		1 80
Colored	24 26	(4)		8 2 2		125
450 W CH				2	6	86 90 125 37 25
Lynn Memphis	26 64	13. 0 18. 9	9. 6 20. 9	1 4 2	13	20
White.	39	10. 9	20.0	2	10	
Chalanad	. 25	(6) 12, 1		2		
Milwaukee	120	12.1	15. 1	16	21	74
Minneapons	93 56	11. 2 21. 3	11. 8 18. 4	14	9 7	78
White	32	21.0	10, 4	1 4		
Milwaukee. Minneapolis Nashville 4 White Colored	32 24	(5)		6 4 2 7		
New Beglord	26 27			7	1 3	122
New Haven	119	7. 7 14. 8	12. 2 20. 8	9	29	55
White	76	l	20.8	4	28	
Colored	. 43	(5) 13. 6		. 5		
New York		13.6	12.6	171	176 16	69
Bronx Borough	175	10. 1 12. 3	9.3	16 56 80 17	16	50 57 86 77 38
Brooklyn Borough Manhattan Borough	528 649	18.0	11. 7 16. 4	80	82 13 2	1 88
A T	142	9.7	8.3	1 17	13	7
Queens Borough Richmond Borough	52	10.0	15.1	,		,

⁴ Deaths for week ended Friday, May 21, 1926.
⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kansa, 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended May 22, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, May 26, 1926, issued by the Bureau of the Census, Department of Commerce)—Continued

	Week end 22, 1		Annual death rate per		under 1 ar	Infant mortality
City	Total deaths	Death rate	1,000 cor- respond- ing week 1925	Week ended May 22, 1926	Corresponding week, 1925	rate, week ended May 22, 1926
Newark, N. J	112 32 18	12.7 9 6	10.8 10.2	25 4 2	9	120 74 59
Colored Oskland Oklahoma City	14 47 23	( ⁵ ) 9.4	8.4	2 4 0	4 4	99 46
Omaha Paterson Philadelphia	54 34 518	13.1 12.4 13.5	10.3 17.7 13.6	3 3 61	5 7 57	31 52 81
Pittsburgh Portland, Oreg Providence	165 58 73	13.5	14.8	20 1 8	23 6 9	66 10 66
Richmond White Colored	47 28 19	13.0	14.3	4 3 1	5	50 59 35
RochesterSt. LouisSt. Paul	110 210 52	17. 9 13. 2 10. 9	14.3 13.8 17.2	13 27 3	12 12 5 2	104
Salt Lake City	36 62 39 124	14.1 15.8 18.5 11.4	11.9 12.1 13.3 12.6	2 16 2 7	10 5 18	28 42 42
Schenectady Scattle Somerville	24 69	13.5	9.0	1 3 3	10 2	29 28 78 23 87
Spokane Springfield, Mass Syracuse	17	8.1 12.6 13.9	15.8 12.1 16.3	1 6 8	2 4	23 87 101
Toledo Trenton	75 40	13.3 15.6 16.7	10.3 13.0 -16.4	10 5 6	- 1 2	97 84 132
Washington, D. C. White. Colored.	1 65	15.0	11.1	10 4 6	9	57 33 109
Waterbury Wilmington, Del Worcester	30 59	12.6 15.9	11.5 9.6	5 3 12	5 5 2	107 70 138
Youngstown	25 29	11. 2 9. 2	10.6 7.2	3	1	90 38

In the cities for which deaths are shown by color, the colored population for 1920 constituted the following percentages of the total population: Atlanta 31, Bultimore 15, Birmingham 39, Dallas 15, Forth Worth 14, Houston 25, Kansas City, Kans. 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 25, Norfolk 38, Richmond 22, and Washington, D. C., 25.

# PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

## UNITED STATES

## CURRENT WEEKLY STATE REPORTS

These reports are preliminary and the figures are subject, to change when later returns are received by the State health-officers

## Reports for Week Ended May 29, 1926

- ALABAMA		- CALIFORNIA	,
	Cases	C'erebrospinal meningitis:	Gases
Chicken pox		Fresno County	. 1
Diphtheria		San Diego	
Influenza		San Francisco	
Malaria		Siskiyou County	
Measles		Chicken pox	
Mumps		Diphtheria	
Pellagra		Induenza	
Pneumonia		Moasles.	
Scarlet fever		Mumps	
Smallpox		Poliomyclitis:	. 20,77
Tuberculosis		Les Angeles	. 3
Typheid fever	. 16	Los Angeles County	. 2
Typhus fever		Riverside County.	. 1
Whooping cough	. 53	Southgate	. 1
ARIZONA		Rocky Mountain spotted fever-Lassen	
Chicken pox	. 8	County	
Diphtheria		Scarlet fever	
Influenza		Smallpox	
Measles		Typhoid fever	
Pneumonia		Whooping cough	. 51
Scarlet fever			1,74
Smallpox		COLORADO Diphtheria	. 17
Trachoma		German measles	. 15
Tuberculosis		Impetigo contagiosa	
Typhold fever		Measles	
T A DITOIGH 10 A OFFICE TO A TO A TO A TO A TO A TO A TO A TO	. 12	Mumps	. 2
ARKANSAS		Pneumonia	
Chicken pox	. 15	Scarlet fever	. 26
Hookworm disease	. 2	Smallpox	
Influenza	. 5	Tuberculosis	
Malaria	. 10		
Measles	. 40	Typhoid fever	
Mumps	. 4	Vincent's angina	
Pellagra	. 6	Whooping cough	. 34
Scarlet fever		CONNECTICUT	
Trachoma.		Corebrospinal meningitis	. 1
Tuberculosis		"Chicken por	48
Whooping cough		Conjunctivitis (infectious)	
97384°—26——3	(11	27)	

CONNECTICUT—continued	Cases	idano—continued	Cases
	14	Mumps	3
Diphtheria	64	Scarlet fever	5
Inflacuza-	7	Smellpox	10
Lethargic encephalitis	il	Whooping cough.	1
M(asles	541	-	
Mrimps	12	ILLINOIS	
Pneumonia (broncho)	41	Cerebrospinal meningitis:	
Pneumonia (lobar)	33	Cook County	1
Scarlet fever	84	St. Clair County.	1
Tuber ulosis (all forms)		Diphtheria	72
Whooping cough	. 39	Influenza	68
		Lethargic encephalitis:	
DELAWARE	. 1	Cook county	1
Chicken pox		McDonough County	1
Malaria		Measles	1, 290
Measles		Pneumonia	355
Pneumonia		Scarlet fever	
Scarlet fever		Smallpox	
Tuberculosis		Tuberculosis	
Whooping cough		Typhoid fever	
who with a constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of		Whooping cough	206
DISTRICT OF COLUMBIA		INDIANA	
Chicken pox		{	40
Diphtheria		Chicken pox	
Measles		Diphtheria	
Pneumonia	_	Influenza	
Scarlet fever		Measles.	
Tuberculosis		Pneumonia.	
Whooping cough	_ 34	Scarlet fever	
FLORIDA		Smallpox	
Chicken pox	_ 29	Trachoma	
Diphtheria		Tuberculosis	
Malaria	_ 1	Typhoid fever	
Measles	_ 114	Whooping cough	. 00
Mumps		KANSAS	
Pneumonia		Chicken pox	. 65
Scarlet fever		Diphtheria	
Smallpox		Dysentery.	. 1
Tuberculosis		German measles	. 17
Typhoid fever		Influenza	. 4
Whooping cough	_ 29	Mensles	458
GEORGIA		Mumps	. 29
Chicken pox	_ 26	Pneumonia.	. 21
Diphtheria		Scarlet fever	_ 36
Dysentery		Smallpex.	
Hookworm disease		Puberculosis	
Influenza	20	Typhoid fever.	
Lethargic encephalitis.		Whooping cough	_ 159
Malaria		LOUISIANA	
Measles		Diphtheria	. 8
Mumps	30	Influenza	_ 20
Paratyphoid fever	2	Leprosy	. 1
Pellagra		Malaria	. 9
Pneumonia		Pellagra	. 16
Scarlet fever	4	Pneumonia	
Septic sore throat Smallpox	9	DOGIAGO ADY DATALLES CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR C	
Tuberculosis	27		16
Typhoid fever	20	COUNTIONS	44
Whooping cough	14		12
	45	I II WAARAWB AAABWA CAAAAAAAAAAAAAAAAAAAAAAAAAAAA	_ 15
DAHG		MAINE	
Cerebrospinal meningitis—Pocatello		Chicken pox.	14
Chicken pox		5 Diphtheria	_ 1
Measles	1	German measles	_ 57

MAINE—continued	Cases	MINNESOTA	Cases
Influenza	8	Cerebrospinal meningitis	1
Measles	268	Chicken pox	105
Mumps		Diphtheria	37
Paratyphoid fever		Influenza	4
Pneumonia	12	Lethargic encephalitis	1
Scarlet fever	29	Measles.	600
Tetanus	1	Pneumonia	5
Tuberculosis	16	Poliomyelitis	2
Typhoid fever	4	Scarlet fever	229
Vincent's angina	2	Smallpox	10
Whooping cough	65	Tuberculosis	86
MARYLAND 1		Typhoid feverWhooping cough	3 36
Cerebrospinal meningitis	. 1	Mississipi	317
Uhicken pox		Diphtheria	6
Diphtheria		Scarlet fever	1
Dysentery		Smallpox	3
German measles	_	Typhoid fever	2
Influenza			
Malaria		MISSOURI	
Measles		(Exclusive of Kansas City)	
Mumps		Cerebrospinal meningitis	1
Pneumonia (broncho)		Chicken pox	38
Pneumonia (lobar)		Diphtheria	68
Scarlet fever		Influenza	. 1
Septic sore throat		Measles	873
Tetanus		Mumps	10
Tuberculosis	67	Ophthalmia neonatorum	1
Typhoid fever		Scarlet fever	121
Whooping cough	. 63	Septic sore throat	3
		Smallpox	
MASSACRUSETTS		Tetanus	1
Cibialson may	137	Trachoma	
C'hicken pox		Tuberculosis	
Diphtheria.		Typhoid fever	
German measles	-	Whooping cough	. 58
Influenza		MONTANA	
Lethargic encephalitis.			
Measles.		Cerebrospinal meningitis	
Mumps		Chicken pox	
Ophthalmia neonatorum		Diphtheria	
Pneumonia (lobar)		German measles	
Scarlet fever		Measles	
Septic sore throat		Mumps	. 2
Tetanus		Rocky Mountain spotted fover:	
Trachoma		East Helena	
Tuberculosis (pulmonary)		Worden	
Tuberculosis (other forms)	. 33	Scarlet fever	
Typhoid fever	. 8	Smallpox	
Whooping cough	248	Tuberculosis.	
MICHIGAN		Typhoid fever Whooping cough	
Diphtheria	. 84	NEBRASKA	
Measles		Chicken pox.	43
Pneumonia		Measles	
		Mumps	
Scarlet fever	13	Scarlet fever	
Tuberculosis		Smallpox	
Typhoid fever	. 5	Tuberculosis	. 5
Whooping cough		Whooping cough	
	. 470	4 11 mAnhays Annessa a samenamental a samenamental a	
¹ Week ended Friday.			

Nathbra	NEW JERSEY	1	orlarona—continued	Canan
Tuberopinal mulnigitis	-			Cases
Maches   178			-	
Dyphtheria		1		38
Millanges				106
Measles	-	,		3
Procumonia   124		,		16
Followylitis			•	23
Scarlet fever				26
Trachoma				15
Typhold forer				13
New New New New New New New New New New		8		43
OREGON   Cerebrospinal memngitis		82	• •	
Chicken pox			OREGON	
Conjunctivitis.		23	Comphysical manuscritic	4
Diphtheria				57
German measles				13
Malaria         2         Measles         11           Mumps         12         Numps         3           Pneumonia         7         Rabies (in animals)         2           Scarlet fever         6         Septic sore throat         3           Tuberculosis         21         Potland         1           Tuberculosis         21         Potland         1           Cerebrospinal meningitis         1         Tuberculosis         1           Chicken pox         194         Typhold fever         1           Undurate         43         Lethargic encephalitis         2           Measles         2,472         Memps         9           Jatavityhold fever         1         Premonal         4           Searlet fever         1         Premonal         2           Servict fever         108         Premonal         3           Trachoma         27         Malaria         3         Trachoma         4           Pretanus         1         Premonal         2         Premonal         2           Servict fever         108         Premonal         2         Premonal         2           Whooping cough         30		1		19
Measles		2		117
Mumps		10		34
Premionia		12	· -	28
Rabies (in animals)	Pneumonia	7		46
Searlet fever	Rabies (in animals)	2		2
Tetanus	Searlet fever	6		
Tuberculesis	Tetanus	1		10
Typheld fever.   14		21	•	10
Cerebrospinal meningitis   1	Whooping cough	36		5
Cerebrospinal meningitis	NEW AUGR		Typhold fever	5
Cerebrospinal meningitis			Whooping cough	37
Chicken pox		1		
Diphtheria		194	PRNNSYLVANIA	
Girman measles		63	Cerebrospinal meningitis—Pitishmah	1
Influenza				
Malaria	Influenza	43		
Malaria.         3         Measles.         3, 17           Mensles.         2, 472         Scarlet fever.         48           Mumps.         105         Trachoma.         Trachoma.         17           Ophthalmia neonatorum         27         Scarlet fever.         18           Septic core throat.         4         Knallpox.         5           Tetanus.         1         Typhoid fever.         15           Trachoma.         1         Typhoid fever.         15           Vincent's angina.         9         Mumps.         1           Vincent's angina.         9         Pneumonia.         5           Chicken pox         82         Diphtheria.         1           Gerel fever.         1         Mumps.         1           Typhoid fever.         15         Mumps.         1           Pneumonia.         2         Tuberculesis.         1           Whooping cough.         300         Scarlet fever.         3           Measles.         334         Ophthalmia neonatorum.         1         1           Measles.         334         Ophthalmia neonatorum.         2         Mumps.           Septic sore throat.         2         3	Lethargic encephalitis	2		
Mumps	Malaria	3		
Ophthalmia neonatorum	Measles	2,472	Scarlet fever	481
Paratyphold fever			Fmallpex	3
Procumonia			TrachomaPittsburgh.	3
Searlet fever			Typhoid fever	10
Septic fore throat				
Smallpox			EHODE PILAND	
Tetanus	Small nov	** E	Chicken pov	ti
Trachoma				
Typhoid fever				
Vincent's angina				
Nonth Carolina   South Lakota	Vincent's augina	Ω		
NORTH CAROLINA			•	
Chicken pox				
Diphtheria		co	1	
Chicken pox			w nooping congu.	. 18
Measles			COLUMN 1 + From	
Ophthalmia neonatorum 1 Scarlet fover 20 Septle sore throat 2 Smallpox 33 Typhoid fover 6 Whooping cough 316 OKLAHOMA 5 (Exclusive of Oklahoma City and Tulsa) Cerebrospinal meningitis—Kiowa County 1 Chicken pox 27  Influenza Measles 7 Measles 7 Mumps 7 Peneumonia 7 Poliomyelitis 8 Scarlet fever 7 Trachoma 7 Trachoma 7 Tuberculosis 7 Whooping cough 9 Whooping cough 9			1	
Scarlet fover				, ]
Septic sore throat 2 Smallpox 33 Typhoid fever 6 Whooping cough 316  OKLAHOMA Scarlet fever 5 Cerebrospinal meningitis—Kiowa County 1 Chicken pox 27  Mumps 7 Pneumonia 7 Poliomyelitis 5 Scarlet fever 5 Trachoma 7 Trachoma 7 Truberculosis 7 Whooping cough Whooping cough 5			1	
Smallpox				
Typhoid fever	Smallpox	33		
Whooping cough				
OKLAHOMA Smellpox  (Exclusive of Oklahoma City and Tulsa) Trachoma Cerebrospinal meningitis—Kiowa County 1 Tuberculosis Chicken pox 27 Whooping cough	Whooping cough.	316		
(Exclusive of Oklahoma City and Tulsa) Cerebrospinal meningitis—Kiowa County1 Chicken pox27 Whooping cough				
Cerebrospinal meningitis—Kiowa County 1 Tuberculosis Chicken pox 27 Whooping cough	(Exclusive of Oklahoma City and To	lsa)		
Chicken pox			Tuberculosis	
	Chicken pox	. 27	Whooping cough	. 1
	² Deaths.		- William Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Comm	-

Tennessee	G	WASHINGTON-Continued	Cases
er a constant	Cases		Cuses 2:
Cerebrospinal meningitis—Nashville		Diphtheria	
Chicken pox		German measles	89
Diphtheria		Measles	77
Influenza		Mumps	22
Lethargic encephalitis—Cannon County		Scarlet fever	48
Malaria		Smallpox	43
Measles	. 397	Tuberculosis	10
Mumps	. 5		
Ophthalmia neonatorum	. 2	WEST VIRGINIA	
Pellagra	. 29	Chicken pox	18
Pneumonia		Diphtheria	ŧ
Scarlet fever	21	Influenza	12
Smallpox		Measles	699
Tetanus		Scarlot fever	36
Trachoma		Smallpox	1
Tuberculosis		Tuberculosis	34
Typhoid fever		Typhoid fever	15
Whooping cough		Whooping cough	17
	~~	Tr Mooping Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and the Constitution and th	, ~~
TEXAS Chicken pox	63	WISCONSIN	
Diphtheria		Milwaukee:	
			60
Influenza		Chicken pox	12
Measles		Diphtheria	
Mumps		German measles	2
Pellagra		Influenza	3
Pneumonia		Measles.	312
Scarlet fever		Mumps	32
Smallpox		Pneumonia	40
Tuberculosis		Scarlet fever	20
Typhoid fever		Tuberculosis	23
Typhus fever	. 1	Whooping cough	67
Whooping cough	. 71	Scattering:	
UTAH		Chicken pox	6:
Chicken pox	42	Diphtheria	17
Diphtheria	. 13	German measles	101
German measles		Influenza	20
Measles	. 65	Measles	1, 207
Mumps		Mumps	. 8
Pneumonia		Pneumonia	24
Scarlet fever		Scarlet fever	90
Smallpox		Smallpox	- 3
Tuberculosis		Tuberculosis.	49
Whooping cough		Typhoid fever	120
	. 201	Wheoping cough	87
Chicken per	. 13	w mooping congrision and a second	Q,
Chicken pox		WYOMING	
Measles		WYOMING	
Mumps		Anthrax-Sheridan County-	1
Poliomyelitis		Chicken pox	1
Scarlet fever	. 2	Diphtheria	1
Whooping cough	13	German measles	
VIRGINIA			
Poliomyelitis-Chesterfield County-	. 1	Influenza	1
Smallpox		Mensles	8
<del>-</del>		Pneumonia	1
WASHINGTON		Rocky Mountain spotted fever:	
Cerebrospinal meningitis:		Converse County	1
Aberdeen		Johnson County	1
Seattle		Sheridan County	1
Spokane	. 1,	Whooping cough	5

#### Report for Week Ended May 22, 1926

NORTH DAKOTA		NORTH DAKOTA—continued	<b>~</b>
	Cases		Cases
Chieken pox	. 17	Rocky Mountain spotted fever	1
Diphtheria	. 6	Scarlet fever	43
German measles	36	Smallpox.	2
Lethargic onecphalitis	. 1	Trachoma	2
Measles	42	Tuberculosis	5
Mumps	. 14	Typhoid fever	1
Pneumonia	. 4	Whooping cough	. 5

### Report for Week Ended May 15, 1926

NORTH DAKOTA		NORTH DAKOTA-continued	
•	Cases		Cases
Chicken pox	10	Pneumonia	12
Diphtheria.	12	Poliomyelitis	1
German measles	128	Scarlet fever	79
Lethargic encephalitis	1	Tuberculosis	3
Measles	34	Whooping cough	
Mumps	28		

#### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week;

WANCE TOPOTO GEO TOO	area aa	THE PAC	COLLOZIO	11 0002						
. State	Cerebro- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
January, 1926										
Pennsylvania	5	899		0	10, 357	0	3	2, 486	2	108
February, 1926		-	İ							,
Pennsylvania	6	788		1	12, 469	0	4	2, 396	7	119
April, 1926	1		1							
Alabama	4 0	30	1, 682 ' 945	35	904	48	2	63	175	84
Arkansas	0	5	945	168	143	41	0	27	30	12
Illinois	10	326 66	628 69	0	4, 299 2, 704	0	ő	1, 507 269	164 50	22
Maine		11	1, 678	ŏ	1, 342	ŏ	ŏ	86	ő	18
Maryland	1 5	89	229	3	2,609	ŏ	1	207	0	30
Michigan		303	100	0	6,532		2	1,401	28 20	18
Minnesota	3	272	12		2, 389		0	1, 434	20	14
Mississippi New York	35	959	6,360 4,018	3, 200	1, 942 15, 052	652	0 2 9	37 1, 792	100 14	71
North Carolina	1	81	3,010	, *	1, 166		ő	106	152	iã
Ohio	3	370	1, 251	1	11, 250	0	2	1,419	253 128	21
Oklahoma 1	4	50	2,717	64	264	19	0	156	128	28
Rhode Island	0	18	45		802	0	0	35	0	3
South Carolina Washington	0 25	107 58	7, 517	391	139 284	207	20	31 322	106 283	32
West Virginia	0	55	1,312		1,956	0	0	201	73	34 12 44 9 18 30 18 14 59 71 13 21 28 3 32 25 18
	1	1	-, -, -, -		-,000	1	1		1	1

¹ Exclusive of Oklahoma City and Tulsa.

#### PLAGUE-ERADICATIVE MEASURES IN LOS ANGELES, CALIF.

The following items were taken from the reports of plague-eradicative measures from Los Angeles, Calif.:

Date of discovery of last plague-infected rodent, Nov. 6, 1925.

Date of last human case, Jan. 15, 1925.

1133 June 4, 1926

#### GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended May 15, 1926, 36 States reported 973 cases of diphtheria. For the week ended May 16, 1925, the same States reported 1,263 cases of this disease. Ninety-nine cities, situated in all parts of the country and having an aggregate population of nearly 30,000,000, reported 701 cases of diphtheria for the week ended May 15, 1926. Last year for the corresponding week they reported 897 cases. The estimated expentancy for these cities was 894 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-three States reported 17,929 cases of measles for the week ended May 15, 1926, and 5,172 cases of this disease for the week ended May 16, 1925. Ninety-nine cities reported 8,936 cases of measles for the week this year, and 3,423 cases last year.

Poliomyelitis.—The health officers of 37 States reported 6 cases of poliomyelitis for the week ended May 15, 1926. The same States reported 18 cases for the week ended May 16, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-six States—this year, 3,402 cases; last year, 3,402 cases; 99 cities—this year, 1,877 cases; last year, 1,866 cases; estimated expectancy, 1,084 cases.

Smallpox.—For the week ended May 15, 1926, 37 States reported 667 cases of smallpox. Last year for the corresponding week they reported 808 cases. Ninety-nine citics reported smallpox for the week as follows: 1926, 147 cases; 1925, 251 cases; estimated expectancy, 117 cases. Three deaths from smallpox were reported by these cities for the week this year—1 at Omaha, Nebr., and 2 at Los Angeles, Calif.

Typhoid fever.—Two hundred and seven cases of typhoid fever were reported for the week ended May 15, 1926, by 35 States. For the corresponding week of 1925, the same States reported 270 cases of this disease. Ninety-nine cities reported 44 cases of typhoid fever for the week this year and 74 cases for the corresponding week last year. The estimated expectancy for these cities was 58 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 94 cities with a population of nearly 29,300,000, as follows: 1926, 935 deaths; 1925, 755.

June 4, 1926 1134

### City reports for week ended May 15, 1926

The "estimated expectancy" given for diphtheria, poliomyelitis, searlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrences how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports includes everal epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the entireated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

Maximum unan isan garaya arina finin sabali sabarin da da garifinin a man		~	Diph	lheria	Infly	ienza			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox. cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths rc- ported	Mca- slcs, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine: Portland	75, 333	1	1	1	0	0	152	3	2
New Hampshire: Concord Manchester	22, 546 83, 097	0	0	0	0	0	0 10	0	2 3
Verment: Barre Burlington	10, 008 24, 080	0	0	0	0	0	0 2	1 0	0
Massachusetts: Boston	779, 620	22	52	15	6	1	158	42	29
Fall River Springfield Worcester	128, 993 142, 065 190, 757	0 11 0	3 3 4	2 0 2	0 0	0 0 0	18 22 6	0 0	5 2 9
Rbode Island: Pawtucket Previdence	69, 760 267, 918	0	0 10	2 8	0	0	7 57	0	3 5
Connecticut: Bridgeport Hartford	(1) 160, 197	0	5 6	3 4	0	1 0	4 12	0	5 8 0
New Haven	178, 927	17	3	0	0	G	71	1	0
New York:	F00 010					0	20		
Buffale New York Rochester Syracuse	5,873,350 316,786 182,003	27 110 10 3	10 260 7 6	138 12 0	55 3 0	14 1 0	23 1, 034 86 225	0 82 0 19	33 188 12 2
Syracuse New Jersey: Camden Newark	128,642 452,513	6	4 15	5 18	1 2	ı O	38 227	0	1 11
Pennsylvania:	132, 020	2	3	2	ō	0	48	1	4
Philadelphia Pittsburgh Reading	1,079,364 631,563 112,707	75 21 12	66 17 3	75 14 1		13 6 0	515 169 42	6 2 0	56 24 1
# EAST NORTH CENTRAL									
Ohio: Cincinnati Cleveland Columbus Toledo	409, 333 936, 485 279, 836 287, 380	7 20 4 45	7 19 3 5	5 25 13 0	0 2 0 0	3 2 0	283 70 155	15 1 0	18 23 8
Indiana: Fort Wayne	97, 846	6	2	1	0	0	23 361	0	9 2 19
Fouth Bend Terre Haute	358, 819 80, 091 71, 071	10 3 2	5 0 1	3 1 0	0	0 0	103 40 23	0	19 10 2
Hinois: Chicago Peoria Springfield	2, 995, 239 81, 564	147	92 0	35 0	11 0	9	205 0	22 5	63 3
Springfield Michigan; Detroit	63, 923 1, 245, 824	33	0 41	47	2 2	5	31 132	10	35
Clint Grand Rapids	130.316	11	3	0	o o	0	147 49	0	8

¹ No estimate made.

### City reports for week ended May 15, 1926-Continued

Division, State, and city				Diph	ther ia	Influ	enza			
Wisconsin:         Kenosha	Division, State, and city	1925,	cases re-	esti- mated expect-	re-	re-	1.6-	cases	cases re-	Pneu- monia, deaths re- ported
Kenosha										
Minnesota:         Duluth         110,502         9         1         0         0         47         0           Minneapolis         425,435         55         16         27         0         0         185         0           St. Paul         246,001         29         16         9         0         2         295         3           Iowa:         367,41         4         1         0         0         15         0         0           Des Moines         141,441         0         3         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         0         1         1         0         0         0         0         1         1         0         0         0         0         0         1         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Kenosha Madison Milwaukee Racine	50, 891 46, 385 509, 192 67, 707 39, 671	86 1	10	0 2 5 2 0	0 2 1	0 3 1	236 289 159	0 45 8	0 2 19 1 2
Duluth	EST NORTH CENTRAL					1				
Davenport   52, 469   4   1   0   0   15   0   0   15   0   0   0   0   0   1   0   0   0   0	Duluth Minneapolis St. Paul		55	16	27	1 0	0	: 185	1 0	1 7 6
Ransas City   367, 481   6   St. Joseph   78, 342   2   1   0   0   0   9   0   0   St. Louis   821, 543   24   41   60   0   1   1, 147   9	Davenport Des Moines Sionx City Waterloo		0	3 1 0	0	0		. 1	0	
Fargo. 26,463 c 0 0 0 0 0 16 Grand Forks. 14,811 c 0 0 0 0 0 16 South Dakota: Abordeen. 15,036 3 0 0 0 0 0 0 4 0 Nebraska: 10,036 21 0 0 0 0 0 0 0 0 0 0 0 0 Nebraska: 11,036 21 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Kansas City St. Joseph St. Louis	78.342	2 24	1	60	0				4 
Aberdeen 15,036 3 0 0 0 0 21 12 12	Fargo Grand Forks	26, 403 14, 811	6	0	0	0	0	0	16	0
Lincoln	Aberdeen Sioux Falls	15, 036 30, 127					0			ō
Ransas	Lincoln	60, 941 211, 768		2 3	1 0		1			1 11
Delaware:	ansas. Topeka	55, 411			2	o	0			0
Wilmington										
Maryland:  Baltimore	elaware: Wilmington	122,049	2		0	0	1	. K	0	2
District of Columbia:  Washington	aryland: Baltimore	1	61	21	11	3		80	172	42 0
Washington 497, 996 22 10 15 1 1 427 0 Virginia: Lynchburg 30, 395 12 1 2 0 0 73 1 Norfolk	Frederick	1	0	0	O	0	1	7	0	, 0
Lynchburg 30, 395 12 1 2 0 0 73 1 Norfolk (1) 36 1 0 1 0 12 1	Washingtonirginia:	1	1	1	1	ł	1	}	1	21
Rosnoke 58, 208 2 1 0 0 70 0	Norfolk Richmond	186, 403	36 6	) 1	0	0	0 0	12 92	1 1 3 0	0 4 4 1
West Virginia: Charleston 49,010 1 1 0 4 2 19 0	est Virginia: Charleston	49, 019	1	1	0	4	1	19	0	0 0 1
Wheeling 56, 208 6 1 2 0 0 177 0	Wheeling orth Carolina:	1	6	1	2	0	0	177	0	1
Releigh 30,371 5 1 1 0 0 0 0 0 Wilmington 37,061 9 0 1 0 0 0 1 Wilmington 60,031 0 0 0 0 9 0	Wilmington Winston-Salem	30, 371 37, 061 69, 031	9	0	1 1	i è	1 0	0	1 1	5 1 3
South Carolina:  Charleston	Charleston Columbia	1	8 5	1 0	1	0	0	0	1 0	1 0
Georgia:	eorgia:	1	1	1	ł	1	1	1	1	1
Brunswick 10,809 3 0 0 0 0 1 0 Savannah 93,134 1 0 0 0 0 1 1	Brunswick	16, 809 93, 134	3 1	1 0	0	) 0	0	) 1	0	9
Florida:  Miami	Miami St. Petersburg	_ 26,847	2	0	1	_	. 0	8		0 2 3

¹ No estimate made.

### City reports for week ended May 15, 1926-Continued

			Diphi	theria	Influ	ienza			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases 10- ported	Mumps, cases re- ported	Priett- monia, deaths re- ported
EAST SOUTH CENTRAL							·		
Kentucky: Covington Louisville Tennessee:	58, 309 305, 935	0	1 4	0	0 1	0	20 142	0	2 15
Momphis Nashville	174, 533 136, 220	7 2	2 1	3 1	0	1 4	369 15	6	5 7
Birmingham Mobile Montgomery	205, 670 65, 955 46, 481	16 2 1	1 0 1	5 0 0	4 0 0	1 0 0	100 0 21	1 0 6	6 0 0
WEST SOUTH CENTRAL Arkansas.									
Fort Smith Little Rock Louisiana:	31, 643 74, 216	3	0	0	0		1 25	0	<u>2</u>
New Orleans Shreveport Oklahoma;	414, 493 57, 857	0	6	3 1	9	4 0	2 1	0 10	13 2
Oklahoma City Texas:		1	1	1	4	0	3	0	2
Dallas Galveston Houston San Antonio	48.575	17 0 0 2	3 0 2 1	8 0 4 2	0 0 0	1 0 0 1	1 0 0 6	0 0 0	3 1 1 7
MOUNTAIN					,				
Montana: Billings Great Falls Helena Missoula	17, 971 29, 883 12, 037 12, 668	1 9 0 3	1 1 0 0	0 0	0 0 0	1 0 0 0	0 67 0 1	0 0 0 4	0 1 1 0
Idaho: Boise Colorado:	23,042	0	0	0	0	0	6	0	0
Denver	280, 911 43, 787	29 14	10 1	10 4	ō	1 0	45 20	1 0	3 2
Albuquerque Arizona:	21,000	1	1	2	0	0	3	4	0
Phoenix. Utah:	1	0	0	0	0	1	0	0	3
Salt Lake City Nevada: Reno.	130, 948	33	3	6	0	0	13 1	9	3
PACIFIC									
Washington: Seattle Spokane Tacoma.	(1) 108, 897 104, 455	48 8 1	5 3 1	1 0 1	0 0	ō	56 1 6	33 0 2	
Oregon: Portland California;	282, 383	13	4	4	0	2	15	4	2
Los Angeles Sacramento San Francisco	(1) 72, 260 557, 530	55 3 47	34 2 20	49 3 11	10 0 2	1 0 0	12 0 177	11 4 12	19 - 1

I No estimate made.

City reports for week ended May 15, 1926-Continued

Nagangangan salayan dipida padhilan kan kina kina dibida dibida kan kan kan kina dibida dibida kan kan kan kan	Scarle	t fever				Tuber-	Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, csti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
NEW ENGLAND											
Maine: Portland New Hampshire:	2	3	0	0	0	3	1	0	0	6	21 18
Concord Manchester Vermont:	1 2	10	0	0	0	2 0	0	0	0	ŏ	19
Barre Burlington	0	0	0	0	0	1	0	0	0	0	3 2
Massachusetts: Boston Fall River Springfield Worcester	53 4 6 8	66 1 8 5	0 0 0	0 0 0	0 0 0	16 2 0 7	2 0 0 0	0 0 0 0	0 0 0	78 5 1 27	244 30 45 53
Rhode Island: Pawtucket Providence	10	3 5	0	0	0	0 2	0	8	0	0 6	16 59
Connecticut: Bridgeport Hartford New Haven	6 5	20 3 16	0	0 0 0	0 0 0	7 2 0	0	0 0 0	0 1 0	1 0 15	39 53 7
MIDDLE ATLANTIC											
New York: Buffalo New York Rochester Syracuse	18 255 15 12	13 269 15 0	0 0	0 0 0	0 0 0	1 95 3 0	1 11 1 0	13 1 0	0 0	33 63 10 46	142 1,441 85 40
New Jersey: Camden Newark Trenton	20 2	7 22 3	0	0 0 0.	0	5 6 8	0 0	0 3 0	0 0	20 5	35 125 35
Pennsylvania: Philadelphia Pittsburgh Reading	77 25 2	128 35 8	0	0 1 0	0 0	28 15 2	5 1 0	2 0 0	0 0	40 101 9	493 163 38
EAST NORTH CENTRAL											
Ohio: Cincinnati Cleveland Columbus Toledo	14 21 8 14	11 102 21 10	2 2 2 4	4 0 0 0	0000	13 18 4 11	1 1 0 0	1 0 0 1	000	22 123 6 40	150 218 77 80
Indiana: Fort Wayne Indianapolis South Bend Terre Haute Illinois:	13 4 3	16 26 6 3	3 8 1 1	1 19 0 0	0 0	0 6 2 0	0 0 0	0 3 0 0	0000	39 8 8	20 119 31 18
Chicago Peoria Springfield	111 3 1	156 3 4	2 1 1	4 0 0	0	65 2 0	3 0 1	0 0 1	0	40 7 16	741 24 12
Michigan: Detroit Flint Grand Rapids	79 5 6	113 22 19	3 2 1	1 0 0	000	30 1 0	2 0 0	0 0	0 0	56 12 18	332 29 39
Wisconsin: Kenosha Madison Milwaukee Ragine Superior	2 2 25 5 2	4 4 18 0 1	0 0 5 1 2	0 0 0 0	0 0 0 0	0 0 11 1 0	1 0 1 0	0 0 0 0 1	0 0 0 0	. 6 2 52 24 0	10 11 117 9 9
WEST NORTH CENTRAL											
Minnesota: Duluth Minneapolis St. Paul	30 22	49 67 29	1 8 4	0 0	0	1 5 2	1 1 0	0 1 0	000	3	112

¹ Pulmonary tuberculosis only.

City reports for week ended May 15, 1936-Continued

	Scarlet	lever		lmulipo	*	Tuber-	Ту	phoid f	over	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths ro- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cuses re- ported	Deaths re- ported	ing cough, cases re- ported	De ths, all causes
WEST NORTH CEN- TRAL—continued											
lowa: Davenport Des Moines Sioux City Waterloo Missouri:	1 8 3 1	1 6 7 1	4 2 1 0	0 2 4 0			000	0 0 0		0 0 7 6	
Kansas City St. Joseph St. Louis North Dakota:	0 2 30	158	3 0 4	0 2	Ö	2 7	0 0 2	0	0	0 48	38 209
Fargo Grand Forks South Dakota:	1	6	. 0	0	0	0	0	0	0	0	1
Aberdeen Sioux Falls Nebraska:	1 1	15 5	0	0	ō	0	0	0	ō	13 0	2
Lincoln Omaha Kansas:	- 2 5	77	6	12	0	0 2	0	0	0	24 0	13 61
Topeka Wichita	2 2	6 2	0 3	0	8	0	0	0	0	7 12	1.3 25
SOUTH ATLANTIC Delaware:											
Wilmington Maryland: Baltimore	- 4 - 26	1		0	1	26		0	0	2 62	27 239
Cumberland Frederick District of Colum	1	2	0	0	0	1	3 1 0	0	0	3 0	10
bia: Washington Virginia:	20	36	1	1	1	1	1	0	0	33	151
Lynchburg Norfolk Richmond Roanoke	0 1 2	1 7	0	1	0	1	0	0 0	0 0	3 9 2 0	6 11 14
West Virginia: Charleston Huntington Wheeling	1 1 2	. 1 1	L) 0		0	5	0	0 0 1	0 0	2 0 0	25 13 27
North Carolina: Raleigh Wilmington Winston-Sale	0 1 m 0		1 0 0 0 1 4	0	1 0	2	0	0 0	0 0	15 0 0	20 12 28
South Carolina; Charleston Columbia Greenville Georgia:		) (	0 1	0	0	1 0 1	0	0	0 0	2 1 4	20 8
Atlanta Brunswick Savannah Florida:	8	) (	50 50	0	1 0	1 0	1	0 0	1 0 0	11 0 0	75 4 29
Miami St. Petersbur Tampa	g. (	ı i			. 0	1	0	2	0 0	4	.34 223 4.3
EAST SOUTH CENTRAL											
Kentucky: Covington Louisville Tennessee:	1			3 2	0	2 7	0	0	0	2 1	19 86
Memphis Nashville	4			0	0	4 0	1	0	0	1 13	51) 50
Alahama: Birmingham Mobile Montgomery	2		1	11 1 5	0		1 1 0	0 0	0	26 0 0	05 14 8

City reports for weck ended May 15, 1926-Continued

	l						I				
	Scarle	t fever		Smallpo	x	Tuber-	Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re- ported	Cases, esti- mated expect- ancy	re-	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST SOUTH CENTRAL											
Arkansas: Fort Smith Little Rock Louislana:	1 1	0 8	0 1	0	0	0	0	0	Ö	8 1	
New Orleans Shreveport Oklahoma:	0	21 0	2 2	5 1	0	11 4	3	7	1 0	3 4	135 37
Oklahoma City Texas:	1	0	4	1	0	0	0	1	0	0	22
Dallas	2 0 1 0	6 0 1 0	3 1 0 0	8 2 11 0	0 0 0	2 6 0 10	0 1 0 0	0 1 2 0	0 0 0	5 0 0	34 11 33 59
MOUNTAIN										,	
Montana:  Billings	1 1 1	0 0 0 1	1 2 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0 0	1 4 0 0	3 9 4 5
Boise Colorado:	1	1	0	4	0	0	0	0	0	0	5
Denver Pueblo	11	21 1	2 0	1 0	0	12 0	0	0	0 1	36 9	86 11
New Mexico: Albuquerque	0	5	0	0	0	4	0	0	0	13	11
Arizona: Phoenix Utah:	1	1	0	0	0	8	0	0	G	0	27
Salt Lake City Nevada:	2	3	0	1	0	2	0	0	0	66	37
Reno	0	0	1	0	0	0	0	0	0	0	3
PACIFIC						1					
Washington: Scattle Spokane Tacoma Oregon:	. 3	21 8 2	4 5 1	5 0 3	0	2	0 0	0	0	9 4 0	29
Portland California.	7	18	8	3	0	3	0	0	0	0	52
Los Angelen- Sacramento- San Francisco	. 2	33 4 28	3 0 2	5 1 11	2 0 0	25 3 6	2 0 1	0 2 1	0 1 0	4 2 4	231 25 118

City reports for week ended May 15, 1926—Continued.

	Cereb men	rospinal ingitis		hargic phalitis	Pel	lagra	Poliom tile	yelitis paraly	(infan- sis)
Division, State and city	Cases	Deaths	Casos	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Casos	Deaths
NEW ENGLAND									
Massachusetts:	0	o	2 2	0	Q	0	0	1	1 0
Springfield Rhode Island:	0	0	0	1 1	0	0	0	0	0
Providence Connecticut:	0	1	1	1		1	1	0	0
Bridgeport New Haven	0	0	0	0	0	0	0	ő	ő
MIDDLE ATLANTIC									
New York: New York	7	4	6	4	0	0	1	1	0
New Jersey: Newark	1	0	1		0	0	0	0	0
Pennsylvania: Philadelphia	. 0	0	1	1	0	0	1 0	0	0
EAST NORTH CENTRAL			-	•	"				
Ohio:		,			ł				
Cincinnati	. 0	0	0	0	0	1	0	0	0
Chicago Michigan:	. 1	2	0	0	0	0	0	0	0
Detroit	. 0	0	0	1	0	0	0	0	0
Wisconsin: Racine	. 0	0	1	1	0	0	0	0	0
WEST NORTH CENTRAL				1					
Missouri:	١.					0		0	
St. LouisNebraska:	. 1	0		0		1	0	0	0
Omaha	. 0	0	0	0	1	1	0	"	"
SOUTH ATLANTIC									
Maryland: Baltimore	. 1	1	0	0	0	0	0	0	0
Virginia: Richmond	. 0	0	0	0	0	0	0	1	1
North Carolina: Raleigh	. 0	1	0	0	0	0	0	0	0
Florida: Tampa	. 1	0	0	0	0	0	0	0	0
EAST SOUTH CENTRAL									
Alabama:	_	_	_		-			.	
Birmingham	0	0	0	1	1	0	. 0	0	0
WEST SOUTH CENTRAL							į		
Arkansas: Little Rock	. 0	0	0	0	1	0	0	0	0
Texas: Dallas	. 0	0	0			2	Q	0	0
Houston	1	0	0	0	0	1	0	0	0
PACIFIC									
Washington: Spokane	. 2		- o		. 0		. 0	0	
Tacoma Oregon:	1	0	1			0	0	0	0
Portland	- 0	0		1		0	0	0	0
Los Angeles San Francisco	3	0		0	1	0	1 0	0	0

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The following table gives the rates per 100,000 population for 103 cities for the five-week period ended May 15, 1926, compared with those for a like period ended May 16, 1925. The population figures used in computing the rates are approximate estimates as of July 1. 1925 and 1926, respectively, authoritative figures for many of the cities not being available. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and more than 29,750,000 The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, April 11 to May 15, 1926--Annual rates per 100,000 population—Compared with rates for the corresponding period of 1935 1

	]	DIPHT	HERL	CASI	E RATI	ES				
					Week	ended				
	Apr. 18, 1925	Apr. 17, 1926	Apr. 25, 1925	Apr. 24, 1926	May 2, 1925	May 1, 1926	May 9, 1925	May 8, 1926	May 16, 1925	May 15, 1923
103 cities	155	110	155	118	152	110	1 152	2 115	4 158	1 122
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central West South Central Pacific	125 227 103 163 96 42 70 231 160	47 118 86 241 90 47 30 191	139 217 106 181 102 37 75 259 157	73 162 87 178 68 20 47 82 146	122 212 102 195 98 37 66 111 196	83 114 97 200 68 73 50 118 154	105 211 106 269 98 11 62 102	106 6 126 89 6 195 75 62 60 146 1165	149 237 7 102 205 81 32 53 148 10 132	87 135 90 228 77 52 82 182 175
Annual Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the		MEA	SLES	CASE :	RATES					
103 cities	564	1, 769	620	1,790	559	1,706	2 603	31, 712	• 599	§ 1, 557
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	811 681	1,813 1,699 1,469 3,309 2,943 2,781 133 528 375	1, 174 779 833 98 278 173 35 213 193	1, 606 1, 593 1, 457 4, 079 2, 538 3, 445 163 1, 074 504	968 731 706 76 288 184 26 518 155	1, 529 1, 417 1, 486 3, 988 2, 528 2, 885 159 805 669	149 793 830 109 227 315 31 176 291	1, 714 (1, 410 1, 454 (4, 458 1, 942 8, 248 125 883 16 690	1, 145 765 705 76 311 152 13 55	1, 198 1, 198 1, 371 4, 451 1, 033 3, 461 155 1, 393 679
	SC	ARLE	r FEV	ER CA	SE RA	TES	- mile playapp than p _e , and			-
103 cities	329	307	438	<b>2</b> 83	297	202	: 311	* 294	4 838	132
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Pacific Pacific	157	373 187 343 895 182 156 133 173 340	393 835 410 671 165 236 114 388 141	222 201 287 883 100 228 172 209 262	415 322 302 502 125 242 106 324 119	281 221 289 867 218 171 146 218 205	460 318 341 500 100 242 84 268 2144	222 6 217 6 1.7 1 1033 1 77 1 107 1 176 1 137 10 197	330 368 705	31 24 35 295 22 20 15 24 25

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1925 and 1926, respectively.

2 Spokane, Wash., not included.
2 Trenton, N. J., Grand Forks, N. Dak., and Tacoma, Wash., not included.
4 Superior, Wis., and Tacoma, Wash., not included.
5 Kansas City, Mo., and Grand Forks, N. Dak., not included.
7 Trenton, N. J., not included.
7 Superior, Wis., not included.
8 Grand Forks, N. Dak., not included.
8 Grand Forks, N. Dak., not included.
8 Tacoma, Wash., not included.

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Summary of weekly reports from cities, April 11 to May 15, 1926—Annual rates per 100 (100) population—Compared with rates for the corresponding period of 1925—Continued

#### SMALLPOX CASE RATES

	Week ended										
	Apr. 18, 1925	Apr. 17, 1926	Apr. 25, 1925	Apı. 24, 1926	May 2, 1925	May 1, 1926	May 9, 1925	May 8, 1926	May 16, 1925	May 15, 1926	
103 citles	46	26	60	31	48	26	2 45	3 20	1 44	5 26	
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	0 18 25 82 50 362 13 9 155	0 0 14 44 43 52 95 27 137	2 12 37 96 75 420 40 28 251	0 0 22 44 47 99 112 46 140	0 3 29 72 60 399 31 9 196	0 19 32 28 99 146 36 102	2 6 41 58 42 347 26 46 2 167	0 22 8 58 30 73 159 36 10 54	0 7 753 76 35 173 35 28 10 181	0 20 20 42 39 119 116 55 67	
	TY	PHOI	) FEV	er ca	SE RA	TES					
103 cities	11	7	16	8	17	9	1 13	8 7	4 13	58	
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	7 11 4 2 12 32 53 87 11	9 7 2 4 4 0 34 9 13	17 14 6 6 13 74 49 28	5 8 1 6 8 26 26 0 22	10 22 4 12 27 42 48 0 17	5 6 4 6 10 21 17 18 27	5 13 8 2 27 42 44 0 29	9 6 0 4 8 0 13 16 17 0	12 10 7 6 0 25 58 75 0	0 10 5 62 4 0 43 9 8	
	INFLUENZA DEATH RATES										
96 cities	26	53	29	38	21	33	14	11 25	10 14	° 16	
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mouniain Pacific	New England. 26 52 29 40 19 35 10 14 7 Middle Atlantic. 24 59 17 34 14 27 10 622 12 Esst North Central. 23 67 31 42 21 46 15 29 10 1 West North Central. 49 23 47 31 30 17 11 13 11 9 South Atlantic. 10 43 40 30 25 28 19 19 10 10 Esst South Central. 74 47 79 104 47 99 47 99 74 3 West South Central. 10 57 24 66 29 28 15 47 19 West South Central. 37 46 74 46 46 9 18 18 55 1										
	P	NEUM	ONIA .	DEAT	I RAT	ES					
96 cities	184	241	196	201	180	177	145	11 163	10 123	• 150	
New England. Middle Atlantic. East North Central West North Central South Atlantic. East South Central West South Central West South Central West South Central Mountain. Pacific	199 203 178 165 217 189 92 203 87	303 288 232 131 207 332 194 155 117	180 222 199 131 180 263 150 213 131	234 240 191 136 205 259 137 109 71	144 206 138 70 180 179 121 120 113	210 219 152 106 177 233 161 118 75	156 181 123 74 148 117 131 120 109	170 6 173 178 121 169 223 118 82 16 84	120 143 118 55 129 152 106 157	165 167 147 79 182 182 137 91	
2 Spokane, Wash., not included. 3 Trenton, N. J., Grand Forks, N. Dak., and Tacoma, Wash., not included. 4 Superior, Wis., and Tacoma, Wash., not included. 5 Kanasa City, Mo., and Grand Forks, N. Dak., not included. 7 Superior, Wis., not included. 7 Superior, Wis., not included. 8 Grand Forks, N. Dak., not included. 9 Kanasa City, Mo., not included. 10 Tacoma, Wash., not included. 11 Trenton, N. J., and Tacoma, Wash., not included.										The control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co	

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively

Group of cities	Number of cities	Number of cities	Aggregate p cities repo	opulation of rting cases	Aggregate p	opulation of ting deaths
3.13.2 <b>p</b> 3. 3.11.11	reporting cases	reporting deaths	1925	1926	1925	1926
Total	103	96	29, 944, 996	30, 473, 129	29, 251, 658	29, 764, 201
New England. Middle Atlantie	12 10 16 14 21 7 8 9	12 10 16 11 21 7 6 9	2, 176, 124 10, 346, 970 7, 481, 656 2, 594, 962 2, 716, 070 993, 103 1, 184, 087 503, 912 1, 888, 142	2, 206, 124 10, 476, 970 7, 655, 436 2, 634, 662 2, 776, 070 1, 004, 953 1, 212, 057 572, 773 1, 934, 084	2, 176, 124 10, 346, 970 7, 481, 656 2, 461, 380 2, 716, 070 993, 103 1, 078, 198 563, 912 1, 434, 245	2, 206, 124 10, 476, 970 7, 655, 436 2, 499, 036 2, 776, 070 1, 004, 953 1, 103, 695 572, 773 1, 469, 144

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### FOREIGN AND INSULAR

#### THE FAR EAST

Report for the week ended May 8, 1926.—The following report for the week ended May 8, 1926, was transmitted by the Far Eastern Bureau of the health section of the League of Nation's Secretariat, located at Singapore, to the headquarters at Geneva.

,	Pla	gue	Cho	lera	Sn:	nall- ox		Pla	gue	Cho	olera		all- ox
Maritime towns	Cases	Deaths	Cases	Deaths	Cases	Deaths	Maritime towns	Cases	Deaths	Cases	Deaths	Cases	Daeths
British India:  Bombay	0 1 0 0	1 0 1 0 0	0 0 255 34	0 0 0 145 22	24 4 21 6 0	12 1 1 3 0 4	Hongkong China: Shanghai Amoy Japan: Yokohama Osaka Korea: Fusan Kwantung: Dairen Port Arthur	0 0 2 0 0 0	0 0 1 0 0 0	0 0 0 0 0 0	0 00 000 00	3 2 1 1 22 2	0 0 0 5 0

Telegraphic reports from the following maritime towns indicated that no case of plague, cholera, or smallpox was reported during the week:

British India.—Negapatam, Chittagong, Cochin, Tuticorin.

Ceulon.—Colombo.

Federated Malay States .- Port Swettenham.

Straits Settlements.—Penang.

Dutch East Indies.-Batavia, Surabaya, Samarang, Cheribon, Belawan Deli, Palembang, Sabang, Makassar, Menado, Banjermasin, Balik-Papan, Pontianak. Sarawak .- Kuching.

British North Borneo .- Sandakan.

Portuguese Timor .- Dilly.

Philippine Islands.—Manila, Iloilo, Jolo, Cebu, Zamboanga.

French Indo-China .- Haiphong, Turane.

· Formosa.—Keelung.

Japan.-Nagasaki, Simouoseki, Moji, Kobe, Niigata, Tsuruga, Hakodate.

Korea.—Chemulpo.

South Manchuria. -- Antung, Mukden, Changchun,

#### AUSTRALASIA AND OCEANIA

Australia.—Adelaide, Melbourne, Sydney, Brisbane, Rockhampton, Townsville, Port Darwin, Broome, Fremantle.

New Guinea.—Port Moresby.

New Zealand.—Auckland, Wellington, Christchurch, Invercargill. Dunedin. New Caledonia.—Noumea.

Hawaii.—Honolulu.

#### * AFRICA

Egypt.—Alexandria, Port Said, Suez.

Anglo-Egyptian Sudan .- Port Sudan.

Eritrea.-Massaua.

French Somaliland .- Djibuti.

British Somaliland.-Berbera.

Italian Somaliland. - Mogadiscio.

Kenya.--Mombasa.

Sechelles .- Victoria.

Mauritius.-Port Louis.

Portuguese East Africa.-Mozambique, Lorenco Marques.

Union of South Africa. - Durban, East London, Port Elizabeth, Cape Town.

Reports had not been received in time for distribution from:

British India.—Calcuttta, Rangoon.

Dutch East Indies .- Padang, Tarakan.

Zanzibar.—Zanzibar.

Madagascar.—Tamatave, Majunga.

#### CANADA

Mortality from certain communicable diseases, Province of Quebec—January, 1926.—During the month of January, 1926, deaths from certain communicable diseases were reported in the Province of Quebec, Canada, as follows: Diphtheria, 44; measles, 32; scarlet fever, 16; tuberculosis (pulmonary), 173; other forms of tuberculosis, 37; typhoid fever, 12; whooping cough, 32.

General mortality.—The total number of deaths from all causes, exclusive of stillbirths, was 2,955. Population, estimated, 2,570,000.

Mortality from certain other diseases.—During the month of January, 1926, 113 deaths from cancer and 324 deaths from diseases of the heart, were reported in the Province. Of these, 36 deaths from cancer and 89 of heart affections occurred at Montreal (population, 675,000), and at Quebec, 5 deaths from cancer and 20 from heart affections (population, 124,341).

#### IRELAND (FREE STATE)

Typhus fever—Cork District—May 2-8, 1926.—During the week ended May 8, 1926, a case of typhus fever was reported in the urban district of Cork, Irish Free State, Ireland.

### UNION OF SOUTH AFRICA

Plague—Cape Province—Orange Free State—April 4-10, 1026.—During the week ended April 10, 1926, plague was reported in the Union of South Africa as follows: Cape Province—one fatal case, bubonic, in a native, occurring in Cradock District; Orange Free State—two native cases occurring in Hoopstad District.

Typhus fever.—During the same period typhus fever was reported in the Union of South Africa as follows: In Natal, one case at Port Shepstone and three cases at Durban (sporadic); outbreaks in Mount Currie and Tsolo Districts.

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### YUGOSLAVIA

Communicable diseases—February 22-March 21, 1926.—During the period February 22 to March 21, 1926, communicable diseases were reported in Yugoslavia as follows:

Disease	Coses	Deaths	Disease	Cases	Deaths
Anthrax ('erchrospinal meninguis Diphthern and croup. Dysentery Lethargic encephalitis Measles	20	3	Rabies	8	8
	28	2	Scarlet lover	488	104
	157	32	Tetanus	14	9
	19	32	Typhoid (ever	151	26
	2	1	Typhus fever	24	6
	1,378	12	Whooping cough	315	10

### CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

The reports contained in the following tables must not be considered as complete or final as regards either the 11-12 of countries included or the figures for the particular countries for which reports are given.

### Reports Received During Week Ended June 4 1926 ¹ CHOLERA

	O.A.	OLUBA		
Place	Date	Cases	Deaths	Remarks
India Calcutta Rangoon Indo-China (French): Saigon	Mar. 28-Apr. 3 Apr. 11-17 May 20	6	30 6	Mar. 21-Apr. 3, 1926: Oases, 7,071; deaths, 3,962.  Present.
Siam: Bangkok	Apr. 4-10	102	61	
	P	LAGUE		Samples and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second
British East Africa: Uganda China: Nanking	Feb. 1-28		42	Prevalent.
India Bombay Karachi Madras (Presidency) Rangoon	Apr. 4-10 Apr. 18-24 Mar. 27-Apr. 3	4 38	1 1 22 5	Mar. 21-Apr. 3, 1926: Clases, 21,012; deaths, 16,627.
Iraq: Bagdad		1	15	
East Java and Madoera Surabaya		5	5 3	
Bangkok Union of South Africa	l	ł		Apr. 4-10, 1926; Clases, 3; deaths,
Cape Province Orange Free State	Apr. 4-10do	1 2	1	1. Native. Native.
	SM.	ALLPO	ζ	In the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se
Algeria Brazil:	Apr. 11-20	3		
Para British East Africa:	· .	1	2	
Uganda	Feb. 1-28	1		

^{*}From medical officers of the Public Health Service, American consuls, and other sources.

... May 9-15....

# Reports Received During Week Ended June 4, 1926—Continued SMALLPOX—Continued

	SMADIA OA		nueu	
Place	Date	Cases	Deaths	Remarks
	<u> </u>			
China:	Apr. 5-17		9	
Amoy	Apr. 5-17 Apr. 11-17		y	Duogomt
L OOCHO M	Apr. 11-1/			Present.
Manchuria— Anshan	Apr. 18-24	1		South Manchuria Ry. Line
Antuna	Apr. 10-21	2		
Antung Changchun	do	2		Do. Do.
Fushun	do	2 2		Do
Harbin	Anr 16-22	4		Do.
Tigo-vano	Apr. 16-22 Apr. 18-24	î		Do.
Liao-yang Tieh-ling	do	î		Do.
Nanking	Apr. 11-24			Present.
Shanghai	Apr. 4-17	1	6	Cases, foreign; deaths, Chines and foreign.
Swatow	Apr. 11-24			Sporadic.
France: Paris	Apr. 21-30	1		•
Great Britain: Bradford.	May 2-8	1		
Newcastle-on-Tyne	do	1		
Nottingham	Apr. 18-24	2		
Sheffield	Apr. 25-May 8	3		
india				Mar. 21-Apr. 3, 1926; Case
Bombay	Apr. 4-10 Mar. 28-Apr. 3 Apr. 18-24	36	20	Mar. 21-Apr. 3, 1926; Case 13,966; deaths, 3,254.
Calcutta	Mar. 28-Apr. 3	33	31	.,,
Karachi	Apr. 18-24	14	4	
Madras	do	3	4 1 2	
Rangoon	Apr. 11-17	1	2	
frag:				
Bagdad	Mar. 21-Apr. 17 Mar. 14-Apr. 17	3	2	
Basra	Mar. 14-Apr. 17	15	9	
italy:				
Catania Japan:	Apr. 27-May 2	4		
Yokohama	Apr. 11-17	4		
Java: East Java and Madoera	Mar. 14-27	4	3	
Mexico: Chihuahua	May 9-17	7	1	
Ciudad Juarez	d0		ii	
Guadalajara			î	
Mexico City	Apr. 25-May 1	6	· ·	Including municipalities in Fe
San Taris Potosi	Apr. 25-May 1 May 9-15 Apr. 1-30		8	eral district.
San Luis Potosi Torreon	Anr. 1-30		15	Clar Cibrico.
Senegal:	2101, 1 001,111		_~	
Dakar	Apr. 19-25	1		
Siam:	_	ł		
Bangkok	Apr. 4-10	9	ž	
Spain:	•	•		
Valencia	May 2-8	3		
Syria: Damascus	Apr. 11-20	1		
		<u> </u>	<u> </u>	
	TYPH	US FEV	ER	
Greece:				
Saloniki Ireland (Free State):	Apr. 13-19	1		•
Cork District	May 2-8	1 1		
Latvia	Feb. 1-28	18		,
Mexico:	7500	i		,
Aguascalientes	Мау 2-8		1	Turning diameters and the state of the
Mexico City	Apr. 25~May 1	10		Including municipalities in Fe
FY-law of Claudh Lifeton		I		eral District.
Union of South Africa	77-1-07-1			Apr. 4-10, 1926: Outbreaks Mount Currie and Tsolo D
Cape Province	Feb. 27-Apr. 2	1		Mount Currie and Tsolo Di
Natal—	4 475		1	trict.
Durban	Apr. 4-17	4		
Port Shepstone	Apr. 4-10	1		This 60 May 61 1000 43
Yugoslavia				Feb. 22-Mar. 21, 1926: Cases, 2
		l	l	deaths, 6.

### Reports Received from December 26, 1925, to May 28, 1926 (CHOLERA

Place	Date	Cases	Deaths	Remarks
('hosen	October-Novem-	12	5	
French Settlements in India	ber, 1925. Dec. 1-31	880	712	
ndia Calcutta	Nov. 1-28	101	89	Oct. 18, 1925, to Jan. 2, 1926 Cases, 21,316; deaths, 12,371 Jan. 3-Mar. 13, 1926; Cases
Do	Dec. 6-26		54	31,105; deaths, 17,859.
De	Dec. 27-Jan. 16		1 41	ł .
Do.	Jan. 24-Apr. 3	464	417	}
Madras	Nov. 15-Jan. 2	174	70	1
Do	Jan. 3-Apr. 17	146	90	I
Rangoon	Nov. 8-Dec. 3	4	4	1
Do	Jan. 24-Apr. 10	17	14	
Indo-China				September - December, 1925
Province—	1		1	Cases, 11; deaths, 7.
Annam.	Sept. 1-30	2	2	
Cambodia	Dec. 1-31	2	1	1
Cochin Ohina	Sept. 1-Dec. 31	6	4	
Saigon	Jan. 4-17	2	2	Including 100 square kilometer
Tonkin.	Sept. 1-Nov. 30	3		of surrounding country.
Japan		409		
Do	Oct. 23-Dec. 26	113		1
	Jan. 17-30	5		1
Philippine Islands:				
Manila	Nov. 9-Jan. 3	15	10	
Do	Jan. 4-Mar. 6		27	
Province-				
Bataan	Nov. 30-Dec. 26	29	25	
Do	Jan. 2-16	1	1	
Batangas	Jan. 24-Feb. 20	13	13	İ
Bohol		1	1	
Bulacan	Oct. 18-Nov. 7 Nov. 23-Dec. 31	92	64 88	
Do	Nov. 23-17ec. 31	200	100	
Do. Laguna	Jan. 2-30	6 18	14	
Do	Nov. 23-Dec. 26 Jan. 24-Feb. 6	5		
Leyto	Jan. 3-9	2	6 2	
Mindoro	Dec. 20-31	35	30	}
Nueva Ecija	Nov 30-Dog 12	7	5	
Pampanga	Nov. 30-Dec. 13 Nov. 1-7	i	ĭ	
Do.	Nov. 23-Dec. 31	113	85	
Do	Jan. 2-Mar. 3	39	35	
Rizal.	Sept. 27-Nov. 21.	75	51	
Do.	Dec. 21-30.	14	ĩi l	
Do.	Jan. 3-Feb. 20	89	30	
Romblon	Nov. 8-Dec. 13	27	14 1	
Russia	Nov. 8-Dec. 13 May-June	7		
Do	July-August	4		
Siaru:		•		
Bangkok	Oct. 4-Nov. 11	108	68	
Do	Nov. 22-Dec. 26	270	140	
Do	Dec. 27-Mar. 13	398	275	
Do	Mar. 21-27	90	52	
On vessel:			1	
Steamship	Oct. 3	9		Arrived at Rangkok, Slam: Cases in coolie passengers.

#### PLAGUE

Argentina				Jan. 24-30, 1926; 6 cases, occur-
Buenos Aires	Jan. 21-30	1		ring in interior Provinces of
St. Michaels.	Jan. 17-Apr. 3	9	4	Salta and Santa Fo.
Belgium: Vilvorde	-	_	_	
Brazil:	Dec. 1-8	1	1	
Bahia	Nov. 8-Dec. 28	3	1	
Santos	Dec. 27-Jan. 30 Dec. 8-21	4	2	
Sao Paulo	Reported Mar 25	4	1	
1 70				

t From medical officers of the Public Health Service, American consuls, and other sources.

### Reports Received from December 26, 1925, to May 28. 1926—Continued PLAGUE—Continued

Place	Date	Cases	Deaths	Remarks
British East Africa:				
Kenya—	Nov 92 Dec 5	1	2	
Kisumu Do	Nov. 22-Dec. 5 Jan. 31-Mar. 20 Sept. 1-Dec. 31 Jan. 1-31	15	3	•
Uganda Protectorate	Sept. 1-Dec. 31	468	426	
D0	Jan. 1-31	109	101	
Canary Islands:	1	1		
La Laguna	Dec. 24	3	2	
uas Paimas	Jan. 7 Dec. 18-27	1	i	
Do Santa Cruz de Tenerife	Dec 18-27	3		
Do	Dec. 28-Feb. 1	3		
Oeleber: Makassar	Dec. 29-Feb. 2	12	12	Netherlands East Indies.
Cevlon:			l	
Colombo.	Nov. 15-Dec. 5 Dec. 27-Jan. 16	3	3	1 plague rodent.
Do	Dec. 27-Jan. 16	2	2	1 The but on tone
Do Ohina,	Jan. 24-Mar. 6	5	5	Feb. 14-20, 1926; Two plague ro
Nanking	Nov. 15-Mar. 27			dents. Prevalent.
Panadar				TIOVAMONO.
Ambato	Mar. 31		5	
Eloy Alfaro	Jan. 1-15	1		
Guayaquil	Jan. 1-15. Nov. 1-Dec. 31. Jan. 1-Apr. 15.	31	12	Rats taken, Nov. 1-Dec. 31, 1925
Ambato Eloy Alfaro Guayaquil Do	Jan. 1-Apr. 15	63	28	49,370; rats found infected, 281
*	Į.		1	Rats taken, Nov. 1–Dec. 31, 1925 49,370; rats found infected, 281 Rats taken, Jan. 1–Mar. 31 1925, 73,499; rats found infected
	}			592.
Latacunga	Apr. 12			Present.
Recreo (country estate)	do	1		
Egypt	1			Jan. 1-Dec. 9, 1925; Cases, 138 Jan. 1-Apr. 8, 1926; Cases, 10.
Alexandria	Mar. 10-Apr. 16 Nov. 18	3	1	Jan. 1-Apr. 8, 1926; Cases, 10.
	Nov. 18.	1	1	
Fayoum Province Gharbia Province Mina Province	Dec. 3-9 Mar. 9-30	į	1 3	
Mina Province	Mor. 4	5 1	î	
Suez	Mar. 4 Mar. 27-Apr. 19	4	î	
Greece:	1	_	_	
Athens	Nov. 1-30 Jan. 1-Mar. 31	18	, 4	Including Piræus.
Do Horakleion	Jan. 1-Mar. 31	25	4	0
Horakielon	Feb. 4 Nov. 13-Dec. 12	1	ī	On island of Orete.
Patras. Hawaii Territory	Feb. 2	4		1 mlagra-intested rodent form
Hawaii—	1			1 plague-infected rodent found near Hamakua Mill Co.
Honokaa	Mar. 16.	2		1 death suspected plague.
Honokaa Kakuihaela	Mar. 16 Mar. 19	ī	1	
Paauilo				Jan. 29, 1926: Plague-infected ra found in vicinity. Oct. 18, 1925-Jan. 2, 1926: Cases 15,135; deaths, 10,677. Jan 3-Mar. 13, 1926: Cases, 58,563 deaths, 41,563.
India				found in vicinity.
IndiaBombay	Dec 6-19	1		15 125: Apothe 10 677 Tom
Do	Dec. 6-12. Jan. 3-Apr. 3	5	11	3-Mar. 13. 1926: Clases 59 563
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			**	deaths, 41,553.
Calcutta	Dec. 6-12 Nov. 1-Dec. 19 Feb. 21-Apr. 17 Oct. 25-Nov. 7		1	
Karachi	Nov. 1-Dec. 19	4	. 3	
Do.	Feb. 21-Apr. 17	18	.9	
Do	Vot. 25-Nov. 7	75	41 22	
Do	Nov. 15-21 Dec. 20-26 Jan. 3-Mar. 20	35 108	64	
Do	Jan 3-Mar 20	1, 229	773	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		25	773 18	
D0	Apr. 11-17			
Do Do Rangoon	Apr. 11-17 Oct. 25-Dec. 26	23	15	
Rangoon	Apr. 11-17 Oct. 25-Dec. 26 Dec. 27-Apr. 10	23 119	15 109	
Rangoon Do Indo-China	Apr. 11-17 Oct. 25-Dec. 26 Dec. 27-Apr. 10	23	15	September-December, 1925: Cases
Rangoon Do	Apr. 11-17 Oct. 25-Dec. 26 Dec. 27-Apr. 10	23 119	15 109	September-December,1925:Cases 28; deaths, 26.
Hangoon Do. Indo-China Province Cambodia	Apr. 11-17 Oct. 25-Dec. 26 Dec. 27-Apr. 10 Sept. 1-Nov. 39	23 119 	15 109 	September-December,1925:Cases 28; deaths, 26.
Rangoon Do_ Indo-China Province— Cambodia Cochin China	Apr. 11-17 Oct. 25-Dec. 26 Dec. 27-Apr. 10	23 119	15 109	September-December,1925:Cases 28; deaths, 26.
Hangoon Do indo-China. Province Cambodia. Cochin China.	Apr. 11-17 Oct. 25-Dec. 26 Dec. 27-Apr. 10 Sept. 1-Nov. 39 Sept. 1-Dec. 31	23 119  13 15	15 109 	September-December, 1925: Cases 28; deaths, 26.
Hangoon Do Indo-China. Province— Cambodia. Cochin China.	Apr. 11-17 Oct. 25-Dec. 26 Dec. 27-Apr. 10 Sept. 1-Nov. 39 Sept. 1-Dec. 31	23 119  13 15 7	15 109 13 13	September-December,1925:Cases 28; deaths, 26.
Hangoon.  DO Indo-China.  Province.  Cambodia.  Cochin China.  Iraq:  Bagdad.  Do  Jayas:	Apr. 11-17 Oct. 25-Dec. 26. Dec. 27-Apr. 10 Sept. 1-Nov. 30 Sept. 1-Dec. 31 Dec. 13-Jan. 2 Jan. 10-Mar. 20	23 119 13 15 7 78	15 109 13 13 3 46	28; deaths, 26.
Hangoon Do Indo-China Province Cambodia Cochin China Iraq: Bagdad Do Java: Batavia.	Apr. 11-17 Oct. 25-Dec. 26. Dec. 27-Apr. 10 Sept. 1-Nov. 30 Sept. 1-Dec. 31 Dec. 13-Jan. 2 Jan. 10-Mar. 20	23 119 13 15 7 78	15 109 13 13 3 46 89	September-December, 1925: Cases 28; deaths, 26.  Province.
Hangoon Do Indo-China Province Cambodia Cochin China Iraq: Bagdad Do Java: Batavia.	Apr. 11-17 Oct. 25-Dec. 26. Dec. 27-Apr. 10 Sept. 1-Nov. 30 Sept. 1-Dec. 31 Dec. 13-Jan. 2 Jan. 10-Mar. 20	23 119 13 15 7 78	15 109 13 13 13 46 89 297	28; deaths, 26.
Hangoon.  Do Indo-China. Province. Cambodia. Cochin China. Iraq: Bagdad. Do Java: Batavia. Do Do	Apr. 11-17 Oct. 25-Dec. 26. Dec. 27-Apr. 10 Sept. 1-Nov. 30 Sept. 1-Dec. 31 Dec. 13-Jan. 2 Jan. 10-Mar. 20	23 119 13 15 7 78	15 109 13 13 13 46 89 297 468	28; deaths, 26.
Hangoon Do Indo-China Province— Cambodia Cochin China Iraq: Bagdad Do Java: Batavia Do Do Do Do	Apr. 11-17 Oct. 25-Dec. 26. Dec. 27-Apr. 10 Sept. 1-Nov. 30 Sept. 1-Dec. 31 Dec. 13-Jan. 2 Jan. 10-Mar. 20	23 119 13 15 7 78	15 109 13 13 3 46 89 297 468 19	28; deaths, 26.
Hangoon Do Indo-China. Province. Cambodia. Cochin China. Iraq: Bagdad. Do Java: Batavia. Do Do	Apr. 11-17 Oct. 25-Dec. 26 Dec. 27-Apr. 10 Sept. 1-Nov. 39 Sept. 1-Dec. 31	23 119 13 15 7 78	15 109 13 13 13 46 89 297 468	

## Reports Received from December 26, 1925, to May 28, 1926—Continued PLAGUE—Continued

Place	Date	Cases	Deaths	Remarks
Java-Continued.	0-4-00-27			Yanidamia in E Tantiire
Djokjakarta Kediri	Oct. 20-Nov. 9			Epidemic in 1 locality.
Koeninigan	Dec. 7. Dec 27-Jan. 16 Feb. 7-Mar. 6		114	20.
Koeninigan Do	Feb. 7-Mar. 6		103	
Pekalongan	Sept. 27-Oct. 17 Nov. 8-Dec. 26		42	
Do	Feb. 14-Mar. 6		252 123	
Probalingga	Feb. 12		120	Epidemic. Port,
Rembang	Oct. 20.	1		Do.
Surabaya	Oct. 11-Dec. 26	59 42	59	
Do	Dec. 27-Mar. 13 Sept. 27-Oct. 17 Nov. 8-Dec. 26	6	42 6	
Tegal Do	Nov. 8-Dec. 26		31	
D0	Feb. 21-Mar. 6		11	
Madagascar				Nov. 1-December 31, 1925: Cases 632; deaths, 593. Jan. 1-31 1928: Cases, 611; deaths, 565, Mar. 1-15, 1926: Cases, 111; deaths 79
Province— Ambositra	Dog 18-31		7	1002, Cauce Att. Joseph KAK
D0	Jan. 1-15	2	2	Mar. 1-15, 1926; Cases, 111
DoFort Dauphin	Sept. 16-30	6	3	deaths, 79.
D0	Jan. 16-Mar. 15	4	4	
Itasy	Nov 15-Dec 31	20 34	20	
<b>D</b> 0	Jan. 1-15	29	34 29	
. Do	Feb. 1-15		29	
Moramanga	Feb. 1-15 Sept. 16-Dec. 31 Jan. 1-Mar. 15	49	48	
Do Tananarive	Jan. 1-Mar. 15	51	47	Cant 16-Mars 20 1005; (losses
Town-				Sept. 16-Nov. 30, 1925; Clases 388; deaths, 341. Dec. 16-31 1925; Clases, 152; deaths, 143 Jan. 1-Mar. 15, 1926; Clases 583; deaths, 486.
Tamatave (Port)	Sept. 16-Nov. 30 Feb. 1-Mar. 15 Sept. 16-30	42	11	1925: Cases, 152; deaths, 143
_ Do	Feb. 1-Mar. 15	5	3	Jan. 1-Mar. 15, 1926: Clases
Tananarive Do	Sept. 16-30	11	11	583; deaths, 486.
political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political political politi	Nov. 1-30 Jan. 1-Mar. 15	40	40	
Mauritius Island	.] Sept. 20-Dec. 26	21	18	
Moca	Dec. 1-31	2	2	
Pamplemousses	Oct. 1-Nov. 30 Oct. 1-Dec. 31	3	2 9	
Port Louis Rivière du Rempart	October	13	9	
Nigeria	Aug. 1-Dec. 31	594	447	
_ Do	Aug. 1-Dec. 31 Jan. 1-31	24	21	
Persia: Teheran	Oat 21 Nov. 21	l	12	
Peril	OC6. 21-110V. 21		12	January-March, 1926; Cases, 383;
Peru Barranca and Supo	Mar, 1-31	4	6	deaths, 148.
(Inflata	1 40	1		W
Caras Cascas Chiclayo Chimboto	do	15	5	Present.
Chiclayo	do	1	4	
Ohimbote	do	16	8	Country estates
CHIRCHA	1	1 12	5	-
Contumará Culorvo	do	12		Present.
Huacho	Jan. 26	15		Port 60 miles north of Callag.
Lacranmarca Lima	Mar. 1-31	6		
Lima	Jan. 1–31	20		In hospital. Some cases in Prov
Mollendo	do			ince.
Do	Mar. 1-31			12 or 15 cases reported unoffi- cially.
MOTO	1 460			Present.
Otuzeo Pacasmayo	do			
Salayerry	do	2 5	1 2	
San Pablo	do	, ,	-	Do.
San Pablo Trujillo	do	15	5	20.
Russia Do	May-June	67		
Senegal	September-Octo-	217		
	ber.	45	25	
Slam	Aug. 23-Dec. 28	65	53	
Do.	Dec. 27-Jan. 30	16	9	
Bangkok Do	Nov. 15-28 Jan. 3-30	38	3	
DO	. Fab. 7-20	11	33 5	
Do	Feb. 28-Mar. 20	3	2	
Straits Settlements: Singapore	MT 1 75	í		
SILKADUR	Nov. 1-Dec. 5 Jan. 3-Mar. 20	. 8	8	l .

### Reports Received from December 26, 1925, to May 28, 1926—Continued PLAGUE—Continued

	PLAGUE-	-Contin	ued	
Place	Date	Cases	Deaths	Remarks
Syria:				
Beirgt.	Nov. 11-20	1		
Union of South Africa	Jan. 21-31	1		Mar. 7-13, 1926: Cases, 3: Euro
				Mar. 7-13, 1926: Cases, 3; Euro- pean, 2. Mar. 21-27, 1926: Cases, 12; deaths, 4.
Cape Province— Kimborley district	Dec. 13-19	1	1	Cases, 12; deaths, 4.
Middleburg district	Dec. 6-12	1		European.
Steynsburg district	Nov. 15-21 Feb. 21-27	1		Native. On farm.
Middleby district  Middleburg district  Steynsburg district  Winburg district  Orange Free State	Feb. 21-21	1		Mar. 14-Apr. 3. 1926: Clases, 9:
				Mar. 14-Apr. 3, 1986: Clases, 9; deaths, 5.
Boshof district Bothaville district	Nov. 29-Dec. 5 Dec. 6-12	1	1	In native. Native. On farm.
Bradford district	Dec. 6-12 Mar. 28-Apr. 3 Mar. 21-27	î	1	Attour Ola Major
Grandfort district	Mer. 21-27	3	1	European, in same Landly, pneu-
Hoopstad district	Mar. 7-Apr. 3	8	4	monic.
Hoopstad district Kroonstad district	Mar. 7-Apr. 3 Mar. 14-20	1		Native. On farm.
Winburg district On vessel:	Mar. 14-Apr. 3	11	5	-
Steamship Cid				Jan. 29, 1926. Plague rat. At
_				Jan. 29, 1926. Plague rat. At Buenaventura, Colorable. Ræt was killed while jamping
			1	ashore from vessel.
,	SM/	LLPOX	<b>K</b>	
Algeria:				
Algiers	Nov. 21-Dec. 31	177		
Do	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-Apr. 10	64 75		
Arabia:	,	10		
Aden	Nov. 29-Dec. 5 Jan. 10-Mar. 6	1	i	Imported.
Do	Jan. 10-Mar. 6	10	1	
Rosario	October		1	
Australia: Queenslaud—			1	
Brisbane	Dec. 9-15	1		
Azores:				
Fayal Island Bahamas	Feb. 2-Apr. 11 Feb. 23			Present. Reported as alastrim. In Nassau district. Stated to
	* 00. 20			have been imported.
Brazil:	Dan 1 21			•
Manaos Do	Dec. 1-31 Jan. 31-Feb. 20.		12	,
Para Rio de Janeiro	19n 10-4 or 24	23	1 8	
Rio de Janeiro.	Nov. 1-28 Dec. 6-26	134 65	72 26	· ·
Do	Dec. 27-Apr. 3	279	224	June 27, 1925-Mar. 30, 1926:
				Cases, 1,089; denths, 580.
British East Africa: Kenya—			1	,
				' '
. Mombasa	Nov. 15-Dec. 19	14	. 6	
Do	Nov. 15-Dec. 19 Dec. 27-Mar. 20	14 2	6	•
Do Tanganyika territory— Dar-es-Salaam	Feb. 21-27	2	, 6	•
Do Tanganyika territory— Dar-es-Salaam	Nov. 15-Dec. 19 Dec. 27-Mar. 20 Feb. 21-27_ Sept. 1-Oct. 31		4	•
Do Tanganyika territory— Dar-es-Salaam Uganda Protectorate British South Africa.	Feb. 21-27. Sept. 1-Oct. 31	2 1	********	
Do. Tanganyika territory— Dar-es-Salaam Uganda Protectorate. British South Africa. Northern Rhodosia. Southern Rhodesa	Feb. 21–27 Sept. 1–Oct. 31 Jan. 5–11	2 1	********	
Do	Feb. 21-27. Sept. 1-Oct. 31	2 1 8	********	Sept. 13-Jan. 2: In 7 Provinces,
Do. Tanganyika territory— Dar-es-Salaam Uganda Protectorate. British South Africa. Northern Rhodosia. Southern Rhodesa	Feb. 21–27 Sept. 1–Oct. 31 Jan. 5–11	2 1 8	********	Cases, 277
Do Tanganyika territory— Dar-es-Salaam Uganda Protectorate. British South Africa. Northern Rhodesia. Southern Rhodesia. Canada. Alberta.	Feb. 21-27 Sept. 1-Oct. 31 Jan. 5-11 Nov. 13-Dec. 23	1 8 2 3	********	Cases, 277
Do. Tanganyika territory— Dar-es-Salaam Uganda Protectorate. British South Africa. Northern Rhodosia. Southern Rhodesia Canada	Feb. 21–27 Sept. 1–Oct. 31 Jan. 5–11	1 8 2 3	********	Cases, 277. Jan. 3-May 1, 1926: Cases, 70. From Drumbeller, vicinity of
Do. Do. Tanganyika territory— Dar-es-Salaam Uganda Protectorate British South Africa. Northern Rhodosia. Southern Rhodesia Canada  Alberta. Calgary.	Feb. 21-27 Sept. 1-Oct. 31 Jan. 5-11 Nov. 13-Dec. 23	1 8 2 3	********	Cases, 277
Do. Do. Tanganyika territory— Dar-es-Salaam Uganda Protectorate British South Africa. Northern Rhodosia. Southern Rhodesia Canada  Alberta. Calgary. British Columbia— Vancouver	Feb. 21-27	2 1 8 2 3	********	Jan. 3-May 1, 1926; Cases, 70. From Drumheller, vicinity of
Tanganyika territory— Dar-es-Salaam Uganda Protectorate British South Africa. Northern Rhodesia Southern Rhodesia Canada  Alberta. Calgary  British Columbia— Vancouver Victoria.	Feb. 21-27	2 1 8 2 3	********	Cases, 277. Jan. 3-May 1, 1925; Cases, 70. From Drumholler, viginity of Calgary.
Do. Do. Tanganyika territory— Dar-es-Salaam Uganda Protectorate British South Africa. Northern Rhodosia. Southern Rhodesia Canada  Alberta. Calgary. British Columbia— Vancouver	Feb. 21-27	2 1 8 2 3	********	Cases, 277. Jan. 3-May 1, 1925; Cases, 70. From Drumbeller, vicinity of

### Reports Received from December 26, 1925, to May 28, 1926—Continued

### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Canada—Continued.				
New Brunswick—		1	1	
Northumberland	Dec. 6-13	1		7
Ontario				Dec. 1-31, 1925; Cases, 32. Jan
t durantam	Jan. 1-Feb. 1	16		3-May 8, 1926: Cases, 269. Township.
Admaston Alice and Fraser	Feb. 1-28	6		Do.
King	do	7		Do.
Wilmot	do	6		Do.
Belleville	do Mar. 8-14	4		
Kingston	Mar. 8-14	1		
Kitchener	do Feb. 14-Mar. 14	26		
North Bay	Dec. 6-12	7 2		
Ottawa Do	Tan 2-Rah 6	2		
Sarnia	Mar. 14-May 8 Dec. 27-Jan. 2 Jan. 3-May 1 Jan. 3-Apr. 17	9		
Toronto	Dec. 27-Jan. 2	1		
Do	Jan. 3-May 1	28		
Trenton	Jan. 3-Apr. 17	15		
Saskatchewan				Jan. 3-May 8, 1926: Cases, 131.
Moose Jaw	Jan. 3-Mar. 20	2		
Regina Saskatoon	Jan. 24-May 1 Feb. 14-20	5		
Ceylon:	Feb. 14-20			
Colombo	Dec. 6-12	1		Port case.
Do	Jan. 3-Feb. 6	5		
Chile:	· ·			
Punta Arenas	Dec. 13-26 Dec. 27-Jan. 2		8	
., Do	Dec. 27-Jan. 2		4	
Obina:	Ont OF The 10		, ,	
Amoy Do	Oct. 25-Dec. 19 Jan. 10-Apr. 3		1 26	
Antung	Dec. 7-20	2	20	
Do	Mar VIATT 4	1 1		
Ohangsha	Feb. 21-27			Present.
Chungking	Feb. 21-27 Nov. 15-27 Feb. 28-Apr. 3			Do.
Do Foochow	Feb. 28-Apr. 3			<b>D</b> 0.
Foochow.	Nov. 1-Apr. 10			Do.
Hankow	Nov. 1-Apr. 10 Nov. 14-Dec. 26 Jan. 10-Mar. 6	3		
Hongkong	Nov. 22-Dec. 26	4		
Do	Jan. 3-Apr. 3	17	5	
Manchuria	***************************************		*	
An-shan	Dec. 6-12	1		
Do	Jan. 10-Mar. 20	9		
Changehun	do	21		
Dairen	do Oct. 19-Dec. 27 Dec. 28-Apr. 4 Jan. 17-Mar. 31 Jan. 1-Apr. 15 Jan. 10-30 Jan. 13-Fob. 20	73 87	15 28	
Do Fushun	Inn 17-Mar 31	3	20	
Harbin	Jan. 1-Apr. 15	18		
Kai-yuan	Jan. 10-30	4		
Kungchuling	Jan. 31-Feb. 20 Jan. 17-Mar. 30	2		
Lio-yang Mukden	Jan. 17-Mar. 30	5		
wakden	Oct. 24-Nov. 15 Jan. 24-Feb. 27 Mar. 14-Apr. 3 Oct. 26-Nov. 15	ļ		
Do Suping Kai	Jan. 24-Feb. 27	4		
Tich-ling	Oct 96_Nov 18	2 2		
Nanking	Nov. 21-Dec. 26 Dec. 27-Apr. 10 Oct. 25-Jan. 2			Do.
Do	Dec. 27-Apr. 10			Do.
Do Shanghai	Oct. 25-Jan. 2	37	36	
Do	197 3-ATA X	57	134	Cases, foreign only. Prevalent.
Swatow Tientsin	Nov. 22-Apr. 10			Prevalent.
Do	Nov. 22-Apr. 10 Nov. 1-Dec. 19 Jan. 23-Feb. 27	2		
Chosen:	vall, 20-1/4D, 2/	2		
Seishin	Jan. 1-Mar. 31	58	33	
Egypt:		1 "	1	
Alexandria	Dec. 3-31 Jan. 8-14	5	2	
Do	Jan. 8-14	2	1	
D0	Jan. 29-Apr. 8	63	11	
	7 0" 04	14	1	
Cairo				
Cairo	Dec. 25-31			
Cairo Do. Port Said Esthonia	Jan. 1-7 Feb. 26-Mar. 4	8		

## Reports Received from December 26, 1925, to May 28, 1926—Continued SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
France				September - December, 1925
Do Havre	Jan. 1-31.	57	9	Čases, 253.
Paris	Jan. 25–31 Mar. 1–31	10		,
Gold Coast	September, De-	58	2 5	
Gota Coast	cember.			,
Do	Jan. 1-31	36	3	
Great Britain: England and Wales				Nov. 15-Dec. 26, 1925; Cases, 790;
Hull	Dec. 27-Jan. 23	. 29		Nov. 15-Dec. 26, 1925: Cases, 790; Dec. 27-Apr. 24, 1926: Cases,
Do	Feb. 7-Mar. 27	9		4, 144.
Leeds	Jan. 14-Feb 6	4		
London	Jan. 31-Feb. 6	6	1	
Newcastle-on-Tyne	Nov. 29-Dec. 19 Dec. 27-Apr. 10 Nov. 22-Dec. 26 Dec. 27-Mar. 13	40	1	•
Do	Nov 22-Doc 28	9	1 1	
Nottingham Do	Dec. 27-Mar. 13	6		
Sheffield	Nov. 22-Dec. 13	7		, ,
Do	Dec 20-26	3		
Do South Shields	Dec. 27-Mar. 20	18		
South Shields	Feb. 9			Reported present in severe form Oct. 1-31, 1925: Casas, 16.
dreece				Oct. 1-31, 1925: Oases, 16.
Athens	Nov. 1-Dec. 31 Jan. 1-Mar. 31	18	1	-
Do	Jan. 1-Mar. 31	87	6	Brown Butani
Kalamata	Mar. 1-7 Feb. 16-Mar. 15	1	2	From Patras.
Saloniki Juadeloupe (West Indies)	reb. 10-191at. 15			Apr. 23-May 10, 1926: Present
o and o o o o o o o o o o o o o o o o o o o				Alactrim
India				Oct. 18-Dec. 26, 1925; Cases 19,472; deaths 4,440. Dec. 27 1925-Mar. 20, 1926; Cases
Bombay	Nov. 8-Dec. 26 Dec. 27-Apr. 3 Nov. 8-Dec. 26	26	20	19,472; deaths 4,440. Dec. 27
Do	Dec. 27-Apr. 3	292	151	1925-Mar. 20, 1926: Casos
Calcutta	Nov. 8-Dec. 20	48 620	25 397	77,893; death.i, 20,629.
Do Karaehi	Dec. 27-Apr. 3 Nov. 1-21	23	391	'. '
Do	Nov 20-13ec 5	4	2	
Do.	Dec. 13-19	3		· · · · · · · · · · · · · · · · · · ·
Do	Dec. 13-19 Dec. 29-Apr. 17 Nov. 15-Dec. 26	113	36	
Madras	Nov. 15-Dec. 26	17	5	,
Do	Dec. 27-Apr. 17 Oct. 25-Dec. 26	143	25	4.1
Rangoon	Oct. 25-Dec. 26	7	1	
Ďo Do	Dec. 27-Jan. 16 Jan. 24-Mar. 6	13 70	1	*
Do	Mar. 21-Apr. 10	28	17	, , ·
Indo-China	1421, 21 14pt. 10			September-Novamber, 1925
Province-				Cases, 346; deaths, 86.
Annam	Sept. 1-Dec. 31	232	44	
Cambodia	1k)	84	34	
Cochin China	do	108	-51	
Saigon Do.	Dec. 21-27	2 14	1 2	Tankerillam 100 managa frilamakan
Tonkin.	Dec. 21-27 Jan. 1-Mar. 28. Sept. 1-Dec. 31	153	2	Including 100 square kilometer of surrounding country:
(reg:	150pt. 1-1500. 01	100	-	or surrounding country.
Bagdad	Nov. 1-Dec. 26	19	15	Sept. 6-Oct. 17, 1925; Cases, 81
Do	Dec. 27-Mar. 13	20	· 11	deaths, 40.
Basra	/uouo	52	42	
(taly	Feb. 15-28			Aug. 2, 1925-Jan. 2, 1926: Cases 52. Jan. 3-Fob. 20, 1926: Cases
Catania	Feb. 15-28	7	1	52. Jan. 3-Fob. 20, 1926; Osses
Canas	Tom 01 10 10	١.		26.
Genoa Rome	Jan. 21-Feb. 10 Oct. 12-25	1		
Do		li		Ocurring in consular district.
amaica	200. 22 20			Nov. 29-Dec. 28, 1925; Cases, 95
			1	Nov. 20-Dec. 26, 1925; Cases, 95 Dec. 27, 1925-Apr. 24, 1926 Cases, 509. Reported as alas
	•	,		Cases, 509. Reported as alas
		-		trim.
Kingston	Nov. 29-Dec. 25 Dec. 27-Jan. 30 Feb. 28-Apr. 24	43		Reported as alastrum.
Do	Dec. 27-Jan. 30	48		Do.
Do	Fen. 28-Apr. 24	36		Do.
Sapan:	Mue 11-1 mm 7"		_	
Nagasaki	Mar. 14-Apr. 17 Feb 15-25	3 2		
Kobe Nagasakı Taiwan	Nov. 11-Dec. 10	3		
D0	Mat. 21-31	- 3		
Yokohama Do	Dec. 14-20	ï	ii	
		67		

# Reports Received from December 26, 1925, to May 28, 1926—Continued SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
Java:				
Batavia	Oct. 24-Dec. 25 Feb. 20-Mar. 19 Nov. 29-Dec. 5 Nov. 3-Dec. 12 Jan. 31-Feb. 6	8		
Do	Feb. 20-Mar. 19	ě		
Buitenzorg	Nov. 29-Dec. 5	ĺ		
Cheribon	Nov. 8-Dec. 12	2		
Do Kraksaan	Jan. 31-Feb. 6		1	
Kraksaan	Uet. 11-17	11		
Malang	Oct. 11-Dec. 26 Dec. 27-Jan. 16	2		
Do	Dec. 27-Jan. 16	3	2	
North Bantam	Oct. 4-17	4		
Pekalongan	Oct. 25-31 Jan. 31-Feb. 6	1		
Pontianak	Jan. 31-Feb. 6		1	
Probolinggo	Oct. 11-17	1		· ·
Serang	Feb. 14-27 Feb. 23-Mar. 27	5		
South Bantam	Oct 11 Dec 00	633	104	
Surabaya	Oct. 11-Dec. 26 Dec. 27-Mar. 13	141	43	
Tegal	Oct. 4-10	171	1	
Latvia	000. 4-10			December, 1925: Cases, 3.
Malta	Nov 1-Dec 21	21	3	Docember, 1020. ( 1866) 0.
Malta Do	Nov. 1-Dec. 21 Jan. 1-Feb. 28	20		
Martinique	May 10	20		Prevalent.
Mexico				July-September, 1925: Deaths
Mexico	Dec. 13-Jan. 2	4	3	1, 157.
Do	Jan. 3-30		3 7	-,
Do	Feb. 14-May 8		4	
Durango	Dec. 1-31		1	
Do	1.00 1		2	
Guadalajara	Dec. 27-May 10		25	
Do Guadalajara Mexico City	Dec. 27-May 10 Nov. 28-Dec. 5	1		Including municipalities in Fed-
	1	1	į .	eral District.
Do Saltillo San Luis Potosi	Jan. 3-Apr. 24	11		Do.
Saltillo	Apr. 4-10	1		
San Luis Potosi	Tan 17_3(ar 00		53	
D0	Mar. 28-May 8	15	25	
Tampico	Dec. 21-Jan. 2	1	1	
Do	Mar. 28-May 8 Dec. 21-Jan. 2 Jan. 2-Mar. 10	8		
Torreon	Nov. 1-Dec. 31 Jan. 1-Mar. 31		51	
Do	Jan. 1-Mar. 31		65	
Vera Cruz	Mar. 29-Apr. 4	5	1	
Netherlands:	Y 00 35 0			
The Hague	Jan. 30-Mar. 6	2	1	Aug. 1-Dec. 31, 1925; Cases, 389;
Nigeria				deaths, 6.
Do	Jan. 1-31	135	1	draving of
Palestine:	700. 1-01	100	1 -	
Hebron	Jan. 26-Feb. 1	2		
Tiberias	Feb. 9-15	ī		
Persia:	1	-		
Teheran.	July 23-Dec. 22		775	
Do	Dec. 23-Feb. 19		99	
reru:	1			
Arequipa	Oct. 1-Dec. 31		2	
Poland				Nov. 1-28, 1925: Cases, 9. Jan 1-16, 1926: Cases, 4. Mar. 1-28, 1926: Deaths, 6.
***************************************	1			1-16, 1926; Cases, 4.
Portugal	-2011-1-21			Mar. 1-28, 1926: Deaths, 6.
Lisbon.	Oct. 4-31 Nov. 16-Dec. 27	124		
Do	NOV. 16-Dec. 27		60	
Do	Nov. 14-Dec. 26	187		
Do	Dec. 27-Apr. 25	126	32	
Oporto.	Nov. 22-Dec. 19 Dec. 27-Apr. 24	2	3	•
Do	Average Cotobar	4	1	
Rumania Russia	August-October	3		Mars Trees 100Ks Coope 2002
Do.	Tuly-October	1 560		May-June, 1925: Cases, 2,333, July 1-Dec. 31, 1925: Cases,
Do	July-October	1, 563		9 447 1-1-50. 01, 1020. CH868;
Siam				3,447. July 12-Sept. 5, 1925: Cases, 21;
Bangkok	Dec 20-25	3	i	deaths, 6.
Do.	Dec. 20-25 Dec. 26-Mar. 6	81	37	Avenual As
Do	Mar. 14-Apr. 3	21	13	
Sierra Leone:	ATAMA IT ANDIO Danna	21	10	
Konno district	Dec. 16-31			
Spain:		٥		
Madrid	Year 1925	l	18	
Do	Jan. 1-81		1 1	
Malaga	Nov. 29-Dec. 5 Dec. 27-Jan. 2		2	

## Reports Received from December 26, 1925, to May 28, 1926—Continued SMALLPOX—Continued

Place Date				
	(	Cases	Deaths	Remarks
Casin Continued				1
Spain—Continued. Valencia Dec. 20–26.	- 1	1	i	
Dec. 27-Jan	. 2	î		
Do. Dec. 27–Jan Do. Jan. 10–Feb	6	9		
Do Feb. 14-Δp	r. 24	12		
Straits Settlements:				
Penang Mar. 28-Ar	r. 3		1	
Singapore Dec. 20–26 Do Jan. 10–Ma		1		
	r. 27	8	2	
Sumatra:	1	_	1	
Medan Feb. 14-27		2		
Switzerland				June 28-Nov. 21, 1925: Cases, 62. Dec. 27, 1925-Feb. 27, 1926. Cases, 48.
Lucerne Oct. 1-Nov Do Jan. 1-31 Zurich Dec. 27-Jan	. 30	8	]	Dec. 27, 1925-Feb. 27, 1926.
Do Jan. 1-31		5		Cases, 48.
Zurich Dec. 27-Jar Trinidad (West Indies): Port of Spain Jan. 1-Apr.	1. 2	1		
Trinidad (West Indies):		12	ł	
Port of Spain Jan. 1-Apr Tripolitania July 1-Dec Do Jan. 1-31	3	34		
Tripolitania	. 01	3		0
Tunisia: Jan. 1-31		9		,
Tunis Nov. 21-30	1	2	Ī	
Do		10	1	•
Do	20	7	• • •	
Turkey:	20	• 1		1
Constantinople Mar. 9-23		2	3	•
Constantinople			• 1	•
Cape Province Jan. 17-23_	. 1	1 1	i i	Outbreaks.
Orange Free State—				
Kuruman district Jan. 10-16_	:			Do.
Kuruman district Jan. 10-16- Ladybrand district Dec. 27-Jan	1. 2			Do.
Transvaal—				
Trafficus Almbertat I da				Do.
Germiston district Jan. 2-9				Do.
Pretoria district Dec. 6-12				Outbreaks. In native com-
1	1			pounds.
On vessel Feb. 21		2		Mexican steamer Montezuma, at
				Port of Ensenada, Mexico.
T	YPHUS	FEVE	R	
Algeria:	1			•
	2.20			• *
AlkicisINOV. I-De		2		,
Algiers Nov. 1-De	. 10	. 2 13		,
Argentina: Jan. 1-Apr	. 10	13	14 70 W W W W 16 W 17 W 18 W	, '
Argentina:  Rosario	. 10	, 13 , 2		
Argentina:  Rosario	c. 31	13 2 50		
Do.   Jan. 1-Apr Argentina:   Oct. 13-De Bulgaria.   Sept. 1-De Do.   Jan. 1-81	e. 31 c. 31	13 2 50 42	3	
Do.	c. 31	13 2 50 42	3	
Do	c. 31	13 2 50 42	3	
Do.	c. 31	13 50 42 1	3	
Do	c. 31	13 2 50 42	3	
Do.	c. 31	13 2 50 42 1 2	3	Dec. 15-31, 1925; Cases, 46. Jan
Do	. 10 c. 31 c. 31	13 50 42 1 2	3	Dec. 15-31, 1925; Cases, 46. Jan 1-15, 1926; Cases, 23.
Do	. 10 c. 31 c. 31	13 50 42 1 2	3	Dec. 15-31, 1925; Cases, 46. Jan 1-15, 1926; Cases, 23.
Do	. 10 c. 31 c. 31	13 50 42 1 2	3	Dec. 15-31, 1925: Cases, 46. Jan 1-15, 1926: Cases, 23.
Do	. 10 c. 31 c. 31	13 50 42 1 2 1	3	Dec. 15-31, 1925; Cases, 46. Jan 1-15, 1926; Cases, 23.
Do.	c. 31c. 81	13 2 50 42 1 2 1	3	Dec. 15-31, 1925: Cases, 46. Jan 1-15, 1926: Cases, 23.
Do.	e. 31 c. 31	13 2 50 42 1 2 1 1 2 1 1 2 2 1	3	Dec. 15-31, 1925: Cases, 46. Jan 1-15, 1926: Cases, 23.
Do.	e. 31 c. 31	13 2 50 42 1 2 1 1 1 2 1 1 2 6	3	Dec. 15-31, 1925: Clases, 46. Jan 1-15, 1926: Clases, 23.
Do.	c. 31 c. 31	13 2 50 42 1 2 1 1 2 1 24 6 1	3.	Doc. 15-31, 1925: Cases, 46. Jan 1-15, 1926: Cases, 23.
Do	c. 31 c. 31	13 2 50 42 1 2 1 1 2 2 1 2 6 6 1 2 5 6 7 1 2 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1	3	Dec. 15-31, 1925: Cases, 46. Jan 1-15, 1926: Cases, 23.
Do	c. 31 c. 31	13 2 50 42 1 2 1 1 2 1 24 6 1	3	Dec. 15-31, 1925; Cases, 46. Jan 1-15, 1926; Cases, 23.
Do.	. 10 c. 31 c. 31	13 2 50 42 1 2 1 1 24 6 1 5 27 1	3	Dec. 15-31, 1925: Cases, 46. Jan 1-15, 1926: Cases, 23.
Do.	. 10 c. 31 c. 31	13 22 50 42 1 2 1 1 24 1 1 2 1 1 1 1 1 1 1 1 1 1		Dec. 15-31, 1925; Clases, 46. Jan 1-15, 1926; Clases, 23.
Do.	. 10 c. 31 c. 31	13 2 50 42 1 2 1 1 24 6 1 5 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Dec. 15-31, 1925; Cases, 46. Jan 1-15, 1926; Cases, 23.
Do.	. 10 c. 31 c. 31	13 22 50 42 1 2 1 1 24 1 1 2 1 1 1 1 1 1 1 1 1 1		Dec. 15-31, 1925: Clases, 46. Jan 1-15, 1926: Clases, 23.
Do	n. 2.	13 2 50 42 1 2 1 1 1 24 6 1 5 2 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	Dec. 15-31, 1925; Clases, 46. Jan 1-15, 1926; Clases, 23.
Do.	n. 2	13 2 50 42 1 2 1 1 2 1 2 1 2 1 2 1 5 2 1 5 2 1 5 2 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Dec. 15-31, 1925: Cases, 46. Jan 1-15, 1926: Cases, 23.
Do.	n. 2	13 50 50 42 1 1 1 24 6 1 5 2 17 1 1 5 1 5 1 7 1 7 1 1 1 1 1 1 1 1 1	2	Dec. 15-31, 1925: Cases, 46. Jan. 1-15, 1926: Cases, 23.
Do.	n. 2	13 2 50 42 1 2 1 1 2 1 2 1 2 1 2 1 5 2 1 5 2 1 5 2 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	Dec. 15-31, 1925; Cases, 46. Jan. 1-15, 1928; Cases, 23.
Do	n. 2	13 50 50 42 1 1 1 24 0 1 5 24 0 1 5 1 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1	2	Dec. 15-31, 1925: Cases, 46. Jan. 1-15, 1926: Cases, 23.
Do.	n. 2	13 50 50 41 11 22 11 24 6 15 22 17 11 15 4 5 15 15 15 15 15 15 15 15 15 15 15 15 1	2	Dec. 15-31, 1925: Clases, 46. Jan. 1-15, 1926: Clases, 23.
Do	n. 2	13 50 50 42 1 1 1 24 0 1 5 24 0 1 5 1 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1	2	Dec. 15-31, 1925: Cases, 46. Jan. 1-15, 1926: Cases, 23.

# Reports Received from December 26, 1925, to May 28, 1926—Continued TYPHUS FEVER-Continued

Place	Date	Cases	Deaths	Remarks
('zechoslovakia	October-December	146	1	
Do	Jan, 1-31	32		
Egypt:	T 0 70-1- 0F	2		
Alexandria	Jan. 8-Feb. 25	3	2	
Cairo Port_Said	Nov 19-25	i	-	
Do	Nov. 5-Dec. 16 Nov. 19-25 Mar. 12-18	î		
Do Esthonia	Jan. 1-31	6		
Finland.				October, 1925: 1 case.
France	July-October	4		Danishan 1005, Games 10
Athens	Nor- 1-20	11	2	December, 1925: Cases, 12.
Do	Nov. 1-30 Jan. 1-Mar. 31 Dec. 29-Jan. 4	45	9	
Saloniki	Dec. 29-Jan. 4	ĭ		1 :
Do	Feb. 2-Mar. 22	2		
Hungary				November-December, 1925: Cases, 16. Jan. 1-31, 1926: Cases, 6.
Ireland:			İ	,
Cork County-			1	
Cork	Dec. 26-Jan. 1 Jan. 2-8	2		
Do	Jan. 2-8	5		
Dumanway	Nov. 14	1		
Galway County————————————————————————————————————	001. 1/	•		
Listowel	Mar. 7-13	1		Rural district.
Wexford County-		ł		_
Gorey	October-December	1		Do.
Latvia	October-December	12		
Riga Lithuania	Oct. 1-31	2		September-December, 1925:
				Cases, 26; deaths, 1. Jan. 1-31, 1926: Cases, 16; deaths, 1. July-September, 1925: Deaths,
Mexico	75	} <u>-</u> -		July-September, 1925: Deaths,
Durange	Dec. 14-19 Dec. 1-31	1	1	90.
Do	Jan. 1-31		i	
Guadalajara	Dec. 8-28		2	
Do	Dec. 8-28 Dec. 29-Jan. 4		1	
Do	Nov. 22-Dec. 26	50		Including municipalities in Federal District.
<b>D</b> 0	Dec. 27-Mar. 20	89		· Do.
Do San Luis Potosi	Mar. 28-Apr. 10	11		Do.
Tampico	Feb. 6-13. Dec. 21-Jan. 10.		1	
Torreon	November, 1925.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	
Vera Cruz	Feb. 12		i	
Morocco.	August-December	93		
Do	Jan. 1-31	57		
Norway				November-December, 1925:
Palestine:				Cases, 2.
Ekron	Mar. 30-Apr. 5	,		
Gaza	Dec 18 "	î		
Haila	Mar. 16-Apr. 19 Dec. 1-7. Feb. 23-Mar. 1 Nov. 3-9	2		
Joffa.	Dec. 1-7	1		
Do	Feb. 23-Mar. 1	1		
Nazaroth	Nov. 3-9	1		
Ramleh Safad	Mar. 16-22 Nov. 24-30	1		
Tel-Aviv	100v. 24-30	1		
Do	Mar. 9-15	i		
Tiberias	do	2		
Peru:				
Arequipa	October-December		3 2	
Do	rep. 1-Mar. 31	400	2 44	
Poland	October-December Feb. 1-Mar. 31 Oct. 11-Jan. 2 Jan. 3-Feb. 13	462 611	45	
Rumania	**************************************	011	-341	July 1-Dec. 31, 1925: Cases, 348;
Constantza	Feb. 1-Mar. 10	2		deaths, 41.
Russia				deaths, 41. May-June, 1925: Cases, 10,680.
Do				July 1-Nov. 30, 1925: Cases, 7,980.
Tunisia: Tunis	Men 91_91			
Turkey:	Mar. 21-31	3		
Constantinople	Jan. 24-80	1 2		
Do	Jan. 24-30 Feb. 9-Mar. 31	6	4	l .

## Reports Received from December 26, 1925, to May 28, 1926—Continued TYPHUS FEVER--Continued

Place	Date	Cases	Deaths	Remarks
Union of South Africa	Oct. i-31	63	5	October, 1925: Cases, 88; deaths, 7 (colored). Cases, European, 7. December, 1925. Cases, 78; deaths, 9. Colored: Cases, 73; deaths, 9. January-February, 1926: Cases, 163; deaths, 28. Colored.
Do	Nov 8-Dec. 31	47	8	
DoGrahamstown	Jan. 1-Feb. 28 Jan. 24-30	126 2	20	Do.
Middleburg district	Dec. 6-12	ī		European. On farm,
Natal Do	Oct. 1-Dec. 5 Jan. 1-Feb. 28	1 11	1	Colored.
Durban	Jan. 3-Apr. 3	6	1	Colorect.
Orange Free State	Nov. 29-Dec. 5 Dec. 1-31	23 8	1	
Do	Jan. 1-Feb. 28	8	3	Do.
Bethulia district Bothaville district	Dec. 6-12	i		Outbreaks.
Transvaal	Oct. 1-31	i	1	Native. On farm.
Do	Dec. 1-31	18		
DoJohannesburg district	Feb. 1-28 Mar. 1-20	8	4	
Bloemhof district	Dec. 27-Jan. 2			Outbreak. On farm.
Yugoslavia				Jan. 1-Feb. 21, 1926: Cases, 81; deaths, 12.
	YELLO	w fev	ER	
Gold Coast	Sept. 1-Dec. 31	4	3	
Nigeria	August-October	3	2	,
Senegal	November, 1925	3	2	

TREASURY DEPARTMENT

# PUBLIC HEALTH REPORTS

ISSUED WEEKLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

Volume 41 :: :: Number 24

JUNE 11 - - - 1926

### SPECIAL ARTICLES =

Results of Dick Tests Made on Different Groups Preliminary Birth, Death, and Infant Mortality Rates, 1925

Patients in Hospitals for Mental Diseases



WASHINGTON GOVERNMENT PRINTING OFFICE 1926

#### UNITED STATES PUBLIC HEALTH SERVICE

Hugh S. Cumming, Surgeon General

#### DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg. Gen. B. J. LLOYD, Chief of Division

The Public Health Reports are issued weekly by the United States Public Health Service through its Division of Sanitary Reports and Statistics, pursuant to acts of Congress approved February 15, 1893, and August 14, 1912.

They contain: (1) Current information of the prevalence and geographic distribution of preventable diseases in the United States in so far as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other communicable diseases throughout the world. (2) Articles relating to the cause, prevention, or control of disease. (3) Other pertinent information regarding sanitation and the conservation of the public health.

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### PUBLIC HEALTH REPORTS

VOL. 41 JUNE 11, 1926 No. 24

### RESULTS OF DICK TESTS MADE ON DIFFERENT GROUPS

By R. E. Dyer, Surgeon, Assistant Director, Hygienic Laboratory, United States Public Health Service; W. P. Caton, M. D., County Health Officer, Fairfax County, Vu.; and B. T. Sochrider, Laboratory Assistant, Hygicnic Laboratory, United States Public Health Service

The Dick tests reported in this paper were made during the latter part of 1924 and throughout the year 1925. They were made primarily for the purpose of standardizing various lots of toxin or for the examination of antitoxins for potency. A standard toxin furnished by the Doctors Dick was used as the control toxin, and the reactions reported are all based on the reactions produced by that particular toxin except in 69 cases. In these 69 cases a toxin made and standardized at the Hygienic Laboratory was used.

The standard toxin prepared by the Doctors Dick and the toxin made at the Hygienic Laboratory were made from cultures of the two Dick strains of scarlet fever streptococci known as Dick I and Dick II. The medium used for toxin production contained 1 per cent sheep's blood. The final product was preserved with 0.5 per cent phenol.

Record syringes (½ c. c.) fitted with ½-inch 26-gauge needles were used. The test dose was 0.1 c. c. of a 1:1,750 dilution of the toxin.

Control injections of toxin boiled one hour or properly diluted samples of the medium used in toxin production were made in the early subjects. On account of the small number of pseudo reactions noted (2.4 per cent), the use of a control was discontinued. The discontinuance of the control made it possible to use the control site for the injection of a second toxin or of a toxin-antitoxin mixture to assist in the titration of an antitoxin.

#### COMPARISON OF RESULTS ON DIFFERENT GROUPS

Table 1 compares the results of the Dick tests at orphan asylums in Washington with the results in rural schools and in one group of children from one of the residential suburbs of Washington.

-97385°-26---1

#### TABLE 1

School	Ago	Sex	Number tested	Per cont positive
Washington suburb Do. 33 rural schools Do. Episcopal Home City Orphan Asylum National Training School White Colored St. Vincent's Orphan Asylum	3-14 13-20	dodo Maledo	75 50 1,147 1,039 47 80 514 303 211 148	77. 3 74. 5 72. 5 73. 6, 38. 3 22. 5 19. 2 16. 5 23. 2 8. 1

Fifty per cent of the public school children tested by Doctor Nesbit (1) in Gary, Ind., gave positive Dick reactions.

The degree of susceptibility in the groups shown in Table 1 may be compared to some of the results obtained with Schick tests. Doctor Zingher (2), quoting Doctor Knight, of the State Department of Health of New Jersey, states that 85 per cent of rural school children were found Schick positive. Kidder (3) found that 76.8 per cent of the rural school children 5-14 years old in Vermont were Schick positive.

Zingher (4) found the following percentages Schick positive in various institutions:

	or cent
New York Catholic Protectory	6. 7
Institute of Mercy	10. 5
Dominican Convent	

Doctor White (5) found that the percentage of positive reactions rises as the density of population decreases. He reported three private schools with 95.6, 98.1, and 97 per cent Schick positive reactions.

### TESTS ON RURAL SCHOOL CHILDREN

The Dick tests in rural schools noted in Table 1 were made on children in several of the schools in Fairfax County, Va. This county is in northern Virginia bordering the Potomac River. The population of Fairfax County is composed largely of farmers, with a sprinkling of Washington commuters. There are no large towns in the county. Fairfax Courthouse, the county seat, is located 14 miles from Washington and has a population of 600. The largest town, Falls Church, lies 6 miles from Washington and has about 2,500 inhabitants. Herndon, Vienna, and McLean, with 1,200, 800, and 800 inhabitants, respectively, are the only other towns of any size in the county.

Table 2 shows the ages of the children and the size of the reactions of the tests for all the children tested in the county.

TABLE 2

Age	+1	++1	+++1	++++1	+++++1	Total positive	Nega- tive ²	Total tested	Per cent positive
4 years 5 years 6 years 7 years 8 years 9 years 10 years 11 years 12 years 13 years 15 years 17 years 17 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years 19 years	1 31 31 38 33 35 35 42 35 31 26 21 13 7 2	1 22 37 30 47 30 33 29 38 27 25 15 8 3	10 13 17 18 8 9 12 6 6 7 5 4 4 4 5	1 2 1 3 4 1	1	1 4 63 89 81 102 81 90 74 77 58 50 32 21 6	10 17 30 19 35 31 27 43 24 18 17 15 4	2 4 80 119 100 137 112 120 101 120- 68 49 36 10	50. 0 100. 0 78. 7 74. 8 81. 0 74. 5 72. 3 75. 0 73. 3 64. 2 70. 7 73. 5 65. 3 60. 0 60. 0
Total	354	353	111	13	1	832	315	1, 147	72. 5

¹⁺ reactions show at least 1 diameter of 1 centimeter and less than 2 dentimeters length. ++ reactions show an average diameter of 2 to 3 contimeters. +++ reactions show an average diameter of 3 to 4 centimeters. ++++ reactions show an average diameter of 4 to 5 centimeters. +++++ reactions show an average diameter of 5 to 6 centimeters.

A reaction measuring less than 1 centimeter in any diameter.

From Table 2 it may be noted that age plays little part in the size of the reactions, although there is an apparent tendency for a larger proportion of the three plus reactions to fall in the earlier ages.

There is a slight decrease in susceptibility as the age increases. This is more readily seen in Table 3, in which the children are divided into two age groups, 6-10 and 11-15. As the children below 6 and over 15 years were few in number they have been omitted from this table.

TABLE 3

Age	+	++	+++	++++	++++	Total positive	Negative	Total tested	Per cent positive
6-10 years 11-15 years	172 155	172 152	67 34	4 8	1 0	416 310	132 142	548 491	75. 9 71. 0
Total	327	324	101	12	1	765	274	1,039	73.6

In the above table the 3, 4, and 5 plus reactions form 17.3 per cent of the total positive reactions in the 6-10 age group and 12 per cent in the 11-15 age group. The percentage of 3, 4, and 5 plus reactions among males was 15.9 and, among females, 14.

Table 4 shows that a relatively greater immunity exists in the males than in the females, and that this difference increases with age.

TABLE 4

Age	M	ales	Fen	111%	Males (per cent	Females (per cent
1160	Positivo	Negative	Positive	Negative	positive)	positive)
4 years	1 4 36	g	27	- š	50 0 100. 0 80. 0	77,3
7 years	49 43 17 43	18 10 22 18	40 38 55 38	12 9 13 13	73. 1 81. 1 68 1 70 1	70.9 80.9 80.8 71.5
10 years	51 41 39	18 16 24	39 33 34	12 11 19	73. 9 71 9 61. 9 65. 8	76. 4 75. 0 66. 6
14 years	21 1 <u>1</u>	1.3 10 9 10	33 23 21 16	11 8 8 5	67. 7 55 0 33. 3	75. 0 78. 3 72. 4 76. 1
18 years 19 years 20 years	1 2	2 2	5 1	<u>1</u>	33 3 50 0 00 0	71, 4 100, 0 00, 0
Total	110	183	113	133	60 6	75.7

Doctor Nesbit (1), in testing the schools of Gary, Ind., found 49 per cent of the males and 52 per cent of the females Dick positive.

Table 5 shows the results in the various schools. The figures given for the cases of scarlet fever reported from the different communities are taken from the reports of the county health officer. In some instances there are notations taken from his report with regard to unreported cases.

TABLE 5.

	-				
School	C'h arwier of location	School enroll- ment	Cuses of scurlet fever in commu- nity Jan., 1920, to Sept, 1925	Number tested	Per cont positive
Franconia Lincolnia Cianeron Falls Church Herndon Forestville Anandale Bailey's McLean Idylwood Oakton Centreville Floris Groveton Colchester Fairfax Courthouse Vienna Snowden Pottor's Itill Drancsville Woodlawn Clifton Legato Pohick Belle Aire Burke Wakefield Liorton Fairfax Wakefield Lorton	Town, population, 1,200	221 170 466 148 148 148 148 148 148 148 148 148 148	17 0 0 13 18 18 15 15 2 4 4 4 32 2 1 38 8 7 7 0 0 49 3 35 7 7 2 18 2 10 2 10 2 10 12 2 10 12 2 10 12 2 10 12 2 10 12 2 10 12 2 10 12 2 10 12 2 10 12 2 10 12 2 10 12 2 10 12 2 10 12 2 10 12 2 10 12 2 10 12 2 10 12 2 10 12 2 10 12 2 10 12 2 10 12 2 10 12 12 10 12 12 10 12 12 10 12 12 10 12 12 10 12 12 10 12 12 10 12 10 12 12 10 12 10 12 10 10 10 10 10 10 10 10 10 10 10 10 10	8 6 6 112 5 12 5 12 5 13 5 14 12 14 12 14 12 14 12 14 12 14 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	100. 0 100. 0 101. 0 102. 0 102. 0 103. 0 104. 4 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 105. 1 10
	L		<u> </u>	l	1

¹ A few unreported cases.

^{*} Many unreported cases.

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#### DICK TESTS ON CHILDREN OF THE SAME FAMILY

Rist and Weiss (6), Zingher (2), and others have noted the tendency of children of the same family to give similar reactions to the Schick test, and that in case of variations, as a rule, the younger children have shown positive reactions and the older negative, the reverse of this being very rare.

Table 6 shows that in response to the Dick test the children of the same family showed similar reactions in the majority of instances. In the families where disagreement in the reactions of different children were noted, it was by no means rare for a younger child to be negative and an older child positive.

TABLE 6.

		Number
1 2 3 14 15 6	Family groups of two or more children Family groups showing all children Dick positive Family groups showing all children Dick negative. Family groups showing younger children Dick positive and older children Dick negative. Family groups showing younger children Dick negative and older children Dick positive. Family groups of three or more children showing other combinations of reactions.	263 151 30 41 25 16

¹ Age and sex distribution approximately the same in groups 4 and 5.

#### ▲ COMPARISON OF TWO TOXINS

In addition to the standard Dick toxin used on all but 69 of the children a second injection was made at the same time with varying dilutions of toxins made at the Hygienic Laboratory. One of the Hygienic Laboratory toxins, known as NY5-391, was made with media which did not differ essentially from the media used by the Doctors Dick in the manufacture of their standard toxin. Cultures of scarlet fever streptococci other than the Dick strains were used for toxin production, part of a single batch of media being inoculated with strain NY5, and a second part with strain 391. The toxins from the two strains were mixed after filtration, the resulting mixture being referred to as NY5-391.

The standardization of toxin NY5-391 was carried to the point where it had been determined that a dilution of 1:14,250 was too weak and a dilution of 1:13,000 too strong. At a dilution of 1:13,500 this toxin and the Dick standard toxin gave 34 positive reactions and 19 negative each on 54 children. The remaining child gave a reaction measuring 10 by 14 mm. to the Dick standard toxin and 5 by 5 mm. to the NY5-391 toxin. The 34 children showing positive reactions to both toxins gave, on the average, a little stronger reaction to the Dick standard toxin.

Sixty-one children tested with the Dick standard toxin and with toxin NY5-391 in a dilution of 1:14,000 showed 51 positive and 10 negative, with no disagreeing reactions. In this school the

positive reactions to the two toxins were practically the same size, the Dick toxin reactions being a shade larger on the average.

Two schools, with a total of 48 children, tested on the same day with the Dick standard toxin and with toxin NY5-391, in a dilution of 1:14,000, gave 17 positive and 31 negative to the Dick standard toxin and 18 positive and 30 negative to toxin NY5-391. Of these 14 positive and 24 negative agreed, whereas 4 were positive to the Dick standard and negative to toxin NY5-391 and 6 were positive to toxin NY5-391 and negative to the Dick standard toxin. Where both tests were positive the reactions to the Dick standard averaged slightly larger.

The disagreeing reactions with the reactions of other members of the same families are given in Table 7.

T	A R	LE	7
1.	AВ	1	

				Rone	tions
Child	Age	Sex	School	Standard Dick toxin, dilution 1:1,750	Toxin NY5-391, dilution 1:14,000
J. G.1 S. G.1 S. D.24 F. D.1 H. D.1 H. D.1 F. S.3 G. B. E. B.5 E. B.5 H. K. S. B.5 D. B.6 D. B.6 C. B.5 H. K. S. B.5 D. B.6 D. B.6 A. B.7 S. B.6 D. B.7 A. B.7 A. B.8 S. B.5 D. B.8 A. B.7 B.8 B.8 B.8 B.8 B.8 B.8 B.8 B.8 B.8 B.8	9 11 8 7 7 9 11 6 7	FMMFMMMMMMFFFFFFMF	Lorton	12×20 7×11 8× 9 0 0 7× 9 0 0 0 0	0 5×5 0 6×6 7×9 12×17 0 14×21 18×19 5×5 0 8×10 8×10

¹ Same family. 2 History of scarlet fever in 1922; see Table 8. 3 History of scarlet fever in 1921; see Table 8.

The results shown in Table 7 are at least suggestive of a difference in the two toxins used (7-8).

# RESULTS OF TESTS MADE ON PERSONS WHO GIVE HISTORIES OF HAVING HAD SCARLET FEVER

At the time the tests were made each individual was asked if he or she had ever had scarlet fever. The replies in many instances were vague; a great majority were sure they had never had scarlet fever and a few stated that they had had the disease. It is interesting to note that in the Fairfax County schools of those children who stated that they had had scarlet fever 17 were positive on test and 5 negative.

⁴ Same family. 5 Hame family. 6 Same family.

The reactions of the 22 who gave a fairly definite history of scarlet fever are shown in Table 8.

TABLE 8

				Year	Dick test reaction		
School	Case	Age	Sex	searlet- fever attack	Positive	Negative	
Clifton Colchester Fairfax Do. Floris Do. Groveton Do. Lorton Do. Lorton Do. Oakton Do. Do. Do. Uo. Do. Do. Do. Do. Do. Do. Do. Do. Do. D	R. S	14 15 10 13 17 14 10 14 8 8 12 13 10 11 15 14 18 6 8 7	eeMeereeMMMeMeMereMerM	1923 1916 4 1922 1923 1909 1918 1922 1922 1922 4 1921 1923 1915 4 1923 4 1921 4 1921 4 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1 1923 1	116×21 10×11 19×19 15×27 12×13 11×13 15×20 10×11 12×20 10×11 12×20 16×23 16×23 16×23 18×21 18×21 18×21 18×21	0×6 0 0 0 5×5	

¹ Reactions expressed in millimeters.

The results for the rural schools shown in Table 8 may be compared with the results obtained in the groups tested in the city of Washington and set forth in Table 9.

TABLE 9

Year of scarlet fever attack	School	Number of cases	Dick positive	Dick negative
1007 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1917 1918 1919 1920 1921 1921 1921 1922 1923 1923 1924 1924 1924 1924	N. T. S.! dododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododo	111114222441213221314422255103	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00011133222244002213311332214933

<sup>Reactions expressed in millimeters.

Same family.

See Table VII.

Diagnosis confirmed by the county health officer and case placed under quarantine.

Same family.

Same family.</sup> 

National Training School for Boys,
 Residential suburb of Washington,
 Episcopal Home.
 St. Vincent's Orphan Asylum.
 Washington City Orphan Asylum.

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Table 10 gives in detail the positive reactions noted in Table 9.

T	AB	LE	10

Year of scarlet-fever attack	,· School	Caso	Age	Sex	Dick test reaction
1907 1909 1913 1921 1922 1917 1928 1928	N. T. S	R. C. F. Q. J. H. H. H. A. E. T. J. A. E. T. C. D.	18 20 20 17 14 9 9	M M M F F	10×12 12×17 15×14 17×15 10× 9 22×25 7×11 10×10

The high percentage of positive Dick reactions found in Fairfax County children giving a history of previous scarlet fever is compared to the low percentage found in Washington institutions. This difference may possibly be explained by difference in degree and frequency of exposure in city and rural children, or the difference in the two groups may be regarded as lending some weight to the suggestion that somewhat different toxins are produced by different strains of scarlet fever streptococci.

#### SUMMARY

- 1. Dick tests made on rural and surburban school children and children in city institutions gave a higher percentage of positive reactions among the rural and surburban groups.
- 2. A relatively greater immunity was found to exist in males than in females, and this difference was found to increase with age.
- 3. When two or more children from one family were tested there was a tendency for the reactions on the different children to agree. When disagreement occurred, the younger children were more often positive and the older children more often negative although the reverse was not rare.
- 4. Differences in reactions caused by toxins produced by different streptococci of scarlatinal origin are noted, with the suggestion that different strains of scarlet fever streptococci may produce different toxins.

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# SUMMARY OF PROVISIONAL BIRTH, DEATH, AND INFANT-MORTALITY FIGURES IN THE BIRTH-REGISTRATION AREA, 1925 1

The Department of Commerce announces that birth rates for 1925 were lower than for 1924 in 26 of the 30 States for which figures for the two years are shown in the following summary. The highest 1925 birth rate (28.8 per 1,000 population) is shown for North Carolina and the lowest (15.1) is for Montana.

Death rates for 1925 were higher than for 1924 in 16 of the 30 States shown for both years. The highest 1925 death rate (14.6 per 1,000 population) is shown for Vermont and the lowest (7.7) for Montana and North Dakota.

Infant-mortality rates for 1925 were generally higher than those for 1924, 19 of the 30 States showing higher rates in 1925. The highest 1925 infant-mortality rate (90.4) appears for Maryland and the lowest (51.2) for Oregon. Infant-mortality rates are shown for both years for 48 cities of 100,000 population or more in 1920. For 24 of these cities the 1925 infant-mortality rates were higher than those for the previous year. The highest 1925 infant-mortality rate among these cities (96.7) was for Norfolk and the lowest (44.9) for Seattle.

Births and deaths (exclusive of stillbirths), with rates per 1,000 population, and infant mortality, in the birth registration area, 1925

	N	ımber, 192	5	Rate per 1,000 population				Deaths under I year per 1,000 births	
Area		Deaths		Births		Deaths			
	Births	All ages	Under 1 year	1925	1924	1925	1924	1925	1924
Total a	1, 727, 467	955, 074	123, 512	21.2	22. 6	11.7	11.8	71.5	71.0
States									
California Connecticut Delawaro Florida Illinois	85, 096 29, 680 4, 674 29, 042 135, 439	56, 762 17, 682 3, 115 16, 872 81, 597	5, 850 2, 180 422 2, 188 9, 826	20. 4 18. 9 19. 7 23. 0 19. 1	22. 2 21. 1 19. 0 21. 8 19. 0	13.6 11.3 13.1 13.4 11.5	14.5 11.3 13.0 12.9 11.2	68. 7 73. 5 90. 3 75. 3 72. 5	67. 1 68. 7 95. 0 81. 8 71. 0
Indiana Iowa Kansas Kentucky Maine	64, 342 47, 760 36, 716 63, 002 17, 372	38, 632 24, 263 18, 521 28, 110 10, 792	4, 370 2, 672 2, 261 4, 437 1, 332	20. 8 19. 7 20. 3 25. 1 22. 1	22. 3 20. 3 21. 0 26. 9 23. 7	12.5 10.0 10.2 11.2 13.7	12.2 9.8 9.9 10.8 13.8	67. 9 55. 9 61. 6 70. 4 76. 7	65. 2 54. 0 59. 0 64. 6 80. 8
Meryland Michigan Minnesota Mississippi Montana	33, 734 99, 022 53, 776 45, 183 10, 185	21, 625 49, 322 25, 439 22, 158 5, 159	3, 049 7, 381 3, 246 3, 094 709	21. 6 23. 1 20. 6 25. 2 15: 1	22.8 24.1 22.0 24.4 16.2	13.9 11.5 9.7 12.4 7.7	13.8 11.6 9.7 11.8 7.9	90. 4 74. 5 60. 4 68. 5 69. 6	86. 2 72. 3 56. 7 71. 3 66. 9
Nebraska. New Hampshire. New Jersey New York North Carolina.	28, 739 9, 404 74, 181 229, 714 80, 882	12, 371 6, 565 42, 193 142, 491 31, 471	1, 678 717 5, 112 15, 453 6, 387	21. 0 20. 8 20. 6 20. 6 28. 8	22. 4 22. 5 22. 3 21. 1 32. 2	9.0 14.5 11.7 12.8 11.2	9. 2 14. 2 11. 9 12. 7 12. 2	58. 4 76. 2 68. 9 67. 3 79. 0	55. 3 79. 5 70. 0 69. 2 82. 3

Birth registration area exclusive of Massachusetts, Utah, and West Virginia for both years. The
 1925 data for Massachusetts and Utah are incomplete; West Virginia was not in the registration area in 1924.
 Exclusive of Massachusetts and Utah, from which complete transcripts for 1925 have not been received.

Births and deaths (exclusive of stillbirths), with rates per 1,000 population, and infant mortality, in the birth registration area, 1925—Continued

	Nu	ımber, 1925	5	Rat	e per 1 lati	,000 po	pu-	Dea und	er 1
Area		Dea	ths	Bir	ths	Dea	iths	year 1,0 birt	00 hs
	Births	All ages	Under 1 year	1925	1924	1925	1924	1925	1924
STATES—Continued									
North Dakota Ohio Oregon Pennsylvania Rhode Island	13, 235 126, 877 15, 425 214, 916 14, 400	4, 960 73, 605 9, 603 115, 664 8, 225	1, 011 8, 841 789 17, 633 1, 048	20. 6 19. 6 17. 9 22. 7 21. 2	22. 2 21. 2 18. 8 24. 2 22. 4	7.7 11.4 11.1 12.2 12.1	7.6 11.2 11.4 12.3 12.5	76. 4 69. 7 51. 2 82. 0 72. 8	66. 7 66. 6 53. 6 78. 5 79. 9
Vermont Virginia. Washington West Virginia Wisconsin Wyoming	7, 487 61, 199 24, 721 45, 311 57, 324 4, 833	5, 133 29, 276 15, 277 17, 153 29, 285 1, 891	545 4, 935 1, 396 3, 615 3, 845 509	21. 2 24. 6 16. 4 27. 7 20. 1 21. 1	21. 0 26. 5 17. 4 (b) 21. 4 24. 1	14.6 11.8 10.1 10.5 10.3 8.2	13. 8 12. 0 10. 0 (b) . 10. 2 9. 5	72. 8 80. 6 56. 5 70. 8 67. 1 63. 9	70. 2 77. 6 56. 2 (b) 64. 7 64. 3
REGISTRATION CITIES									
California: Alameda Alameda Bakersfield Borkeley Eureka Freeno	1, 254	319 388 628 275 531	28 61 44 23 86	16. 5 30. 0 13. 5 31. 7 21. 1	17. 1 31. 7 14. 1 30. 8 24. 9	10. 0 16. 5 9. 5 20. 3 9. 1	10. 1 19. 2 9. 8 19. 1 9. 9	53. 2 86. 5 49. 3 53. 6 69. 7	50. 4 95. 2 50. 3 58. 1 60. 8
Glendale_ Long Beach Los Angeles Oakland Pasadena.	713 2, 133 18, 691 4, 490 1, 289	523 1, 261 11, 474 2, 586 824	29 107 1,246 233 50	33 5 23. 4 (c) 17. 7 22. 7	39. 8 27. 8 (°) 18. 4 24. 9	24, 6 13, 8 (c) 10, 2 14, 5	24, 8 14, 4 (°) 11, 2 15, 3	40. 7 50. 2 66. 7 51. 9 45. 8	47. 8 40. 6 65. 6 65. 5 45. 3
Pomona Richmond Riverside Sacramento San Bernardino	352 371 575 <b>2,</b> 040 879	218 123 388 1,392 520	- 18 18 53 150 79	22. 9 16. 5 (e) 28. 2 38. 5	23. 0 16. 2 26. 3 28. 6 35. 9	14. 2 5. 5 (°) 19. 3 22. 8	13. 8 6. 0 17. 8 17. 6 23. 3	51. 1 48. 5 92. 2 76. 5 80. 9	69. 6 60. 2 91. 4 69. 7 101. 0
San Diego San Francisco San Jose Santa Ana. Santa Barbara.	886 585 551	1,770 7,897 499 272 339	135 479 41 35 42	23. 2 15. 5 20. 3 30. 0 22. 9	23. 1 16. 5 20. 6 28. 7 20. 4	16.7 13.3 11.5 14.0 14.1	17.3 13.6 11.1 17.2 12,1	54. 9 55. 5 46. 3 59. 8 76. 2	54. 7 55. 7 52. 1 111. 3 03. 4
Santa Cruz Santa Monica Stockton Vallejo Venice	240 596 896 235 125	198 361 582 171 107	10 36 64 15 8	22. 0 30. 7 18. 9 8. 8 8. 6	21. 4 33. 2 20. 2 8. 8 10. 2	18.1 18.6 12.3 6.4 7.4	19.3 21.2 13.4 7.5 9.1	41.7 60.4 71.4 63.8 64.0	29. 9 54. 8 64. 4 66. 7 71. 4
Connecticut: Arsonia Bidgeport Bristol Danbury town Derby	284 3, 060 593 521 421	156 1,541 220 367 189	27 164 49 48 34	14. 9 (°) 24. 1 23. 3 33. 7	16. 0 (°) 25. 2 23. 2 35. 9	8. 2 (4) 8. 9 16. 4 15. 1	8, 2 (°) 8, 9 14, 3 14, 6	95. 1 53. 6 82. 6 92. 1 80. 8	116.3 55.9 79.6 63.8 72.6
East Hartford town Enfield town Fairfield town Greenwich town Hartford	281	93 109 95 264 2,051	10 23 10 24 284	10. 6 21. 9 12. 3 18. 0 24. 6	11. 2 23. 4 15. 7 19. 2 25. 9	6.8 8.5 6.6 10.4 12.8	7.5 10.7 7.8 10.6 11.6	69. 0 81. 9 55. 9 52. 5 72. 0	67. 1 67. 6 73. 1 69. 3 61. 8
Manchester town Moriden town Middletown town Milford town Naugatuck	451 754 575 - 132 131	213 466 550 136 97	30 42 33 7 6	20. 3 25. 1 9. 8	22. 2 19. 4 26. 3 12. 2	10. 1 12. 8 24. 0 10. 1 5. 9	8, 7 12, 4 22, 2 9, 3 5, 5	66. 5 55. 7 57. 4 53. 0 45. 8	52, 5 67, 3 70, 1 63, 7 65, 5
New Britain New Haven New London Norwalk Norwalk	1. 1 242	406	170 252 51 35 68	21.3	97 0	9.3 12.1 14.6	9. 6 12. 2 14. 5 12. 5	103, 3 66, 0 69, 0 54, 5	77. 1 72. 1 59. 8 58. 2

Not in the registration area in 1924.

c Population not estimated.

Births and deaths (exclusive of stillbirths), with rates per 1,000 population, and infant mortality, in the birth registration area, 1925—Continued

	N	ımber, 192	j	Rat	e pet 1	,000 pc	pu	Deaths under 1 year per	
Area		Deaths		Births		Dec	ths	1,0 b•r	OO)
	Births	All ages	Under 1 year	1925	1921	1925	1924	1925	1924
REGISTRATION CITIES—continued									
Connecticut—Continued. Orange town Stamford town Stomington town Stratford town	389 1, 120 157 207	268 578 109 119	18 82 5 9	19.8 24 1 11 5 12 9	22, 2 26, 0 16, 0 15, 2	13. 6 12 1 10. 0 7. 4	14. 0 11. 8 9. 1 3. 8	46. 3 73. 2 31. 8 43 5	66, 0 67, 2 53, 1 72, 6
Torrington town	485 140 2, 203 321	198 128 1, 083 199	32 8 183 24	18 6 11 2 (°) 22,2	20. 8 14. 9 (·) 24. 1	7. 6 10, 2 (°) 13. 7	9. 5 8. 4 (') 12. 4	56 0 57, 1 82, 9 74, 8	56. 6 43 2 77 0 49 1
Delaware: Wilmington	2, 345	1, 435	204	19. 2	19. 2	11.8	11.7	87. 0	90-9
District of Columbia: Washington	9, 107	7, 015	796	17.7	19. 1	13. 6	13, 5	87 5	76. 0
Florida: Jacksonville. Key West. Miami	2, 507 317 2, 421	1, 947 211 1, 398	197 29 242	26 3 23, 1 34, 7	25. 1 25. 6 25. 6	20 4 15 4 20.0	19. 1 16. 9 14. 1	78 6 91, 5 100, <b>0</b>	93. 2 89. 9 101. 7
Pensacola St. Petersburg Tampa	669 791 <b>2, 2</b> 51	469 652 1, 271	83 61 174	26 1 29 5 23 8	28. 0 19. 5 20. 5	18, 5 21, 3 13, 4	19. 0 19. 3 10. 9	124. 1 80 9 77. 3	90 0 88 9 61, 3
Illinois:	655	390	60	24 4	25. 7	11 6	14.6	91.6	91. 2
Aurora Belleville Berwyn Bloomington	1, 025 504 303 597	527 345 164 433	78 22 24 47	25 5 13.7 16.1 19.6	25. 3 17. 5 15. 9 18. 1	13. 1 12. 8 8. 7 14. 2	12. 6 12. 5 7. 1 13. 5	76. 1 43. 7 79. 2 78. 7	54 9 79. G 52 1 73. 4
Blue Island Cairo. Canton Centralia. Champrign	386 224 236 273 409	180 301 190 156 236	31 29 25 14 38	29 3 14.1 21.4 19.4 22.5	29, 8 15, 9 21, 7 24, 7 21, 8	13. 7 19. 3 17. 2 11. 1 13. 0	31	80. 3 120. 5 105. 9 51. 3 92. 9	72. 9 141. 3 71. 1 91. 2 92. 3
Chicago Chicago Heights Cicaro Danville Decatur	59, 639 284 595 837 1, 126	34, 318 231 349 571 660	4, 150 45 50 88 74	19. 9 17. 4 9. 6 22. 6 20. 9	20, 0 19, 5 10, 4 21, 1 20, 6	11, 5 10, 4 5, 6 15, 4 12, 3	11. 2 9. 2 4. 8 14. 3 11. 5	74.8 117.2 84.0 105.1 65.7	76. 8 82. 9 87. 8 75. 5 77. 0
East St. Louis Elgin Evanston Forest Park Freeport	1, 454 635 1, 528 92 487	85.0 705 570 90 308	138 31 66 3 26	20. 4 19. 0 34. 8 7. 0 23. 5	20. 6 22. 1 34. 7 6. 3 24. 6	12, 5 21, 1 13, 0 6, 9 14, 9	11.9 21.5 11.2 9.0 15.2	94, 9 48, 8 43, 2 32, 6 53, 4	105. 7 58. 0 43. 2 112. 5 40. 5
Galesburg Granile City Herrin Jacksonville Joliet	572 559 255 337 747	340 224 164 511 527	37 61 26 23 71	23. 0 30. 8 19. 1 21. 2 18. 4	24. 0 32. 3 26. 4 20. 1 19. 9	13. 7 12. 3 12. 3 32. 1 13. 0	14.0 12.2 11.1 32.6 11.9	61. 7 109. 1 102. 0 68. 2 95. 0	64, 2 83, 2 94, 1 71, 9
Kankakoe Kewanee La Sallo Lincoln Mattoon	465 379 310 238 330	248 199 161 266 199	36 30 29 19 27	25, 2 19, 2 22, 3 19, 1 22, 4	25. 8 18. 5 25. 3 21. 7 25. 3	13. 4 10. 1 11. 6 21. 4 13. 5	14. 0 10. 0 11, 7 16. 0 15. 7	77. 4 79. 2 .03. 5 79. 8 81. 8	74, 5 91, 9 77, 6 67, 2 89, 9
Maywood Moline Murphysboro Oak Park Ottawa	152 643 199 2, 280 281	123 347 295 757 161	14 27 21 79 21	10. 7 19. 0 15. 9 44. 3 24. 3	12.8 18.9 16.1 43.5 27.1	8.6 10.2 23.6 14.7 13.9	7. 4 9. 3 12. 0 14. 4 13. 6	92. 1 42. 0 105. 5 34. 6 74. 7	67, 8 61, 9 66, 3 20, 4 68, 0
Pekin Peoris Quincy Lock Island Rockford	320 1, 517 798 389 1, 578	154 1, 126 585 325 683	23 109 73 30 83	24. 0 18. 6 20. 4 10. 0 20. 6	24, 0 16, 3 20, 4 11, 5 21, 3	8.1	12.5 13.7 14.3 3.8 9.1	71.9 71.9 91.5 75.2	66, 9 84, 5 64, 6 51, 1

[·] Population not estimated."

Births and deaths (exclusive of stillbirths), with rates per 1,000 population, and infant mortality, in the birth registration area, 1925—Continued

	N	ımber, 192	5	Rat	e per 1 lat	,000 pc	pu-	Deaths under 1 year per 1,000	
Area		Dea	aths	Births		Dea	ths	1,0 bir	
	Births	All ages	Under 1 year	1925	1924	1925	1924	1925	1924
REGISTRATION CITIES—continued									
Illinois—Continued. Springfield Streator Urbana Waukegan	1, 394 399 207 413	1, 121 227 147 213	119 33 16 26	21. 8 26. 5 18. 2 18. 8	22, 5 30, 6 18, 8 20, 4	17. 5 15. 1 13. 0 9. 7	15. 5 14. 8 13. 2 10. 2	85. 4 82. 7 77. 3 63. 0	69. 4 45. 7 66. 7 68. 6
Indiana: Anderson	189 187 1,073	401 211 146 137 409	47 45 23 13 121	21. 5 34. 6 13. 9 17. 8 23. 5	21. 1 35. 1 16. 8 18. 6 24. 4	11. 8 16. 8 10. 7 13. 0 9. 0	16. 4 10. 3	64. 6 103. 4 121. 7 69. 5 112. 8	68. 8 52. 8 122. 2 35. 9 139. 5
Elkhart Elwood Evansville Fgrt Wayne Frankfort	284 1, 640 2, 381 242	344 138 1, 161 1, 151 185	41 17 110 152 20	22. 3 26. 3 17. 5 24. 3 18. 5	23. 4 24. 2 19. 5 25. 2 23. 2	12.7 12.8 12.4 11.8 14.2	11. 1 11. 7 11. 0 11. 1 12. 2	67. 9 59. 9 67. 1 63. 8 82. 6	54. 7 83. 7 65. 7 56. 8 64. 0
Gary Hammond Huntington Indianapolis Jeffersonville	1, 908 1, 275 345 6, 890 262	1, 030 510 185 4, 951 180	190 97 32 479 21	26. 0 25. 3 21. 7 19. 2 25. 9	27. 4 27. 0 23. 8 20. 9 23. 6	13. 4 10. 1 11. 6 13. 8 17. 8	13. 0 9. 1 11. 3 13. 1 15. 3	95. 1 76. 1 92. 8 69. 5 80. 2	87. 2 72. 5 56. 8 77. 1 105. 0
Kokomo La Porte Lafayette Logansport Marion	403 681 397 519	384 232 461 261 320	58 27 50 26 35	21. 0 23. 0 28. 6 17. 2 19. 8	22. 5 24. 7 29. 1 18. 7 21. 6	10. 4 13. 2 19. 4 11. 3 12. 2	10.6 11.9 19.0 11.0 11.9	75. 0 67. 0 73. 4 65. 5 67. 4	77. 0 35. 5 53. 9 44. 5 64. 6
Michigan City Mishawaka. Muncie New Albany New Castle	555 753 819 545 349	293 262 473 322 181	39 60 58 25 24	27, 3 45, 2 19, 3 23, 7 20, 6	29. 7 45. 9 21. 3 23. 4 19. 1	14. 4 15. 7 11. 1 14. 0 10. 7	14. 6 15. 5 12. 1 13. 7 9. 3	70. 3 79. 7 70. 8 45. 9 68. 8	70, 2 57, 1 83, 7 42, 7 73, 0
Peru Richmond South Bend Terre Haute Vincennes Whiting	259 445	155 331 968 1,029 301 81	22 33 145 130 42 20	20. 4 14. 6 29. 2 17. 9 24. 4 17. 4	23. 1 16. 2 30. 9 21. 0 24. 8 21. 5	12. 2 10. 9 12. 1 14. 5 16. 5 6. 7	12. 7 10. 2 12. 0 13. 9 16. 7 7. 0	84. 9 74. 2 62. 0 102. 2 94. 4 123. 2	75. 3 57. 4 64. 3 77. 9 91. 5 82. 7
Iowa:  Hoone Burlington Cedar Rapids. Clinton Council Bluffs	243 533 918 435	147 387 541 401	13 35 55 38	19.0 20.2 18.2 16.5	18. 6 19. 2 18. 0 17. 0 23. 8	11. 5 14. 7 10. 7 15. 2	10. 6 12. 0 10. 4 13. 3	53. 5 65. 7 59. 9 87. 4	50. 4 35. 9 56. 1 76. 2
Ceuncil Bluffs  Davenport.  Des Moines.  Dubuque  Fort Dodge.  Fort Madison.	953 3, 119 906	528 696 1, 518 618 272 173	85 51 188 69 34 35	25, 3 18, 2 22, 1 22, 1 21, 1 23, 4	23. 8 17. 0 22. 1 21. 1 23. 1 23. 7	13.3 10.7 15.1 12.5 15.4	13.4 12.5 10.8 14.7 10.2 14.3	84. 4 53. 5 60. 3 76. 2 74. 4 133. 1	100. 1 64. 4 57. 3 71. 9 66. 7 74. 6
Iowa City Keokuk Marshalltown Mason City	460 347	458 273 311 232	44 20 32 32	30. 5 23. 9 23. 3 23. 7	31. 5 24. 1 20. 1 23. 2	30. 0 18. 8 18. 4 10. 2	25. 1 17. 3 17. 2 11. 4	94. 4 57. 6 81. 4 59. 6	59. 7 77. 1 44. 5 84. 6
Muscatine Ottumwa Sioux City Waterloo	218	230 353 905 376	16 40 159 37	18, 9 22, 5 23, 4 20, 3	18. 2 22. 5 23. 5 20. 3	14. 0 13. 4 11. 8 10. 2	14.9 13.4 11.1 10.6	50. 3 67. 5 88. 9 49. 6	72. 1 71. 8 67. 7 72. 6
Kansas: * Arkansas City	. 381	185	23	27. 2	27. 3	13, 2	14.3	60.4	80.4
Atchison Chanute Coffeyville El Dorado	273 204 355	185 205 139 168 110	17 9 33	18. 2 20. 8 21. 9	16.9 27.0 26.0	13.6 14.1 10.4	13. 0 14. 5 10. 9 10. 5	62, 3 44, 1 93, 0 62, 0	60. 5 74. 9

Births and deaths (exclusive of stillbirths), with rates per 1,000 population, and infant mortality, in the birth registration area, 1925—Continued

	N	umber, 192	5	Rat	e per l	,000 pe	opu-	und	aths ler 1
Area		Des	iths	Bit	ths	De	nths	yean 1,0 bir	000
	Births	All ages	Under 1 year	1925	1924	1925	1924	1925	1924
REGISTRATION CITIES—continued	•								
Kansas—Continued. Emperia. Fort Scott Hutchinson Independence. Kansas City	303 262 498 219 2,685	215 213 293 131 1,653	22 14 29 13 235	24. 7 22. 3 19. 2 20. 1 23. 1	30. 4 24. 2 20. 4 27. 5 22. 7	17. 6 18. 1 11. 3 12. 0 14. 2	17. 2 17. 7 10. 1 12. 6 13. 2	72. 6 53. 4 58. 2 59. 4 87. 5	81. 5 60. 5 53. 6 65. 8 94. 1
Lawrence	235 300 290 353 354	184 265 221 174 199	9 35 16 20 27	19. 0 14. 4 19. 5 18. 4 22. 7	21. 8 14. 9 21. 1 24. 2 26. 9	14.9 12.7 14.9 9.1	15.4 14.5 11.7 11.3 14.0	38. 3 116. 7 55. 2 56. 7 76. 3	78. 1 88. 8 41. 1 43. 4 64. 6
Salina Topeka Wichita	1, 280 2, 099	796 1,093	89 140	23. 1 23. 8	24. 9 22 8	14. 4 12. 4	11.4 11.7	69. 5 66. 7	70. 9 57. 7
Kentucky: Ashland Covington Henderson. Lexington	875 1,503 259 998 6,088	375 914 217 978 4, 302	79 99 30 81 494	35 8 25. 8 20. 6 21. 3	29. 9 21. 0 22. 2 22. 7 21. 2	15.3 15.7 17.3 20.9	11.9 14.1 18.1 22.9	90. 3 65. 9 115. 8 81. 2 81. 1	86. 6 64. 5 93. 5 100. 6 71. 0
Louisville Newport Owensboro Paducah	559 511 511	332 343 473	52 54 71	19. 9 19 1 24. 7 19. 9	17 5 26. 2 20. 5	11.3 15.6 18.3	10. 5 17. 1 16. 3	93. 0 99 3 144. 0	89. 7 94. 4 115. 7
Maine: Auburn Augusta Bangor Bath Biddeford	319 575 166 592	211 304 494 132 282	24 26 43 18 45	15 3 21. 8 21. 6 9. 4 31. 9	14. 4 24. 9 21. 2 12. 7 36 9	11.7 20.8 18.5 7.4 15.2	10.5 22.8 19.4 8.8 11.7	86. 6 81. 5 74. 8 108. 4 76. 0	85. 6 96. 7 67. 7 100. 9 85. 3
Lewiston Portland Sanford town Waterville	971 1,627 401 431	601 1,118 130 185	118 105 22 23	27. 9 21. 6 34. 5 29. 9	30. 6 21. 8 39. 2 31. 8	17. 3 14. 8 11. 2 12. 8	16.6 14.3 9.7 14.4	121. 1 64. 5 54. 9 53. 4	117. 8 79. 6 60. 1 92. 7
Maryland: Annapolis Baltimore Cumberland Frederick Hagerstown	253 17, 041 908 344 658	146 11,648 509 258 360	19 1, 394 76 28 59	20. 0 21. 4 26. 9 28. 6 21. 0	21. 3 22. 2 26. 8 26. 8 22. 1	11. 6 14 6 15. 1 21. 4 11. 5	11. 9 14. 4 13. 9 20. 5 13. 0	75. 1 81. 8 83. 7 81. 4 89. 7	79. 8 84. 9 79. 0 93. 5 79. 3
Michigan: Adrian Alpena. Ann Arbor Battle Creek Bay City	295 291 710 875 1,064	202 172 708 587 632	23 23 76 83 71	23. 6 26. 5 32. 4 20. 7 21. 8	24. 4 31. 9 31. 7 19. 4 23. 1	16. 1 15. 5 31. 9 13. 9 12. 9	15. 6 14. 9 29. 7 13. 2 12. 6	78. 0 78. 2 105. 7 04. 9 66. 7	43. 0 70. 6 66. 9 80. 1 49. 8
Benton Harbor Detroit Escanaba Flint Grand Rapids	374 31,953 454 3,078 3,631	213 13, 587 213 1, 007 1, 767	20 2, 460 29 220 249	26. 8 25. 7 34. 6 23. 6 23. 6	30. 5 25. 1 35. 6 26. 5 22. 3	15.3 10.9 16.3 7.7 11.5	16.3 10.8 14.8 7.7 10.3	77. 5 77. 2 63. 9 74. 4 68. 6	84. 1 78. 9 70. 8 68. 9 52. 9
Hamtramck Highland Park Holland Ironwood Ishpeming	1, 428 1, 597 323 371 216	353 559 111 152 131	106 81 17 24 13	17. 5 22. 1 24. 6 21. 3 20. 6	19. 7 22. 9 26. 5 23. 2 25. 5	4.3 7.7 8.4 8.7 12.5	5.4 8.2 10.0 11.4 11.5	74. 2 52. 6 52. 8 61. 7 60. 2	108. 2 71. 7 58. 1 121. 2 58. 0
Jackson Kalamazoo Lansing Marquette Monroe	1, 099 1, 262 1, 644 385 374	723 941 747 188 150	95 92 135 32 29	19, 0 23, 5 23, 2 23, 7 26, 3	20. 2 26. 4 21. 3 27. 7 24. 2	12.5 17.6 10.6 14.0 10.5	11.6 16.6 10.7 14.0 11.4	86. 4 72. 9 82. 1 83. 1 77. 5	61.7 54.0 •74.7 78.8 144.1
Muskegon Owosso Pontiac Port Huron	1, 136 367 1, 059 727	510 219 671 399		26. 4 25. 8 22. 3	24. 0 23. 8 22. 8 24. 1	11.8 15.4	12, 2 13, 6 14, 3	91. 5 76. 3 76. 5 103. 2	70. 8 63. 3 92. 8 78. 1

Births and deaths (exclusive of stillbirths), with rates per 1,000 population, and infant mortality, in the birth registration area, 1925—Continued

	N	umber, 192	5	Rate per 1,000 population				Deaths under 1 year per	
Area		Des	nths	Births		Dea	at hs	bit	100
	Births	All ages	Under 1 year	1925	1924	1925	1924	1025	1924
REGISTRATION CITIES—continued									
Michigan—Continued. Saginaw Sault Ste. Marie Traverse City Wyandotte	1, 562 296 231 680	923 175 332 302	128 34 15 62	21. 7 24. 5 21. 1 27. 8	23. 2 27. 4 17. 2 28. 0	12. 8 14. 5 30. 4 12. 3	12.5 11.7 30.2 9.0	81.9 114.9 64.9 91.2	75, 5 63, 4 69, 1 80, 9
Minnesota: Austin. Duluth. Failbault Hibbing. Mankato. Minneapolis.	9, 438	113 1,114 222 177 223 4,929	18 149 14 32 30 571	26.5 20.3 26.7 28.9 31.3 22.2	24. 2 22. 3 24. 1 31. 4 20. 8 23. 4	9.5 10.1 18.1 9.9 16.3 11.6	9.8 9.6 16.6 8.0 14.8 11.2	57. 0 66. 4 42. 7 61. 7 70. 1 60. 5	67. 9 63, 8 48. 3 56. 3 44. 9 53. 5
Rochester St. Cloud St. Paul Virgina Winona	424 585 5, 926 287 452	568 252 3, 121 122 208	20 54 344 23 14	24 9 31.0 24.1 17.9 12.2	23. 0 34. 3 25. 2 21. 1 25. 3	50. 9 13. 4 12. 7 7. 6 10. 7	50.7 11.6 12.0 7.7 13.6	61.3 92.3 58.0 80.1 32.4	55. 6 54. 1 56. 5 60. 4 55. 0
Mississippi Bilosi Columbus Greenville Hattiæsbirg Jackson	402 238 323 403 774	179 210 362 262 615	31 23 39 42 63	32.0 21.0 21.3 28.6 52.7	31.1 19.2 22.4 30.5 31.4	14, 2 18, 5 23, 9 18, 6 26, 0	16. 6 15. 4 23. 9 16. 5 21. 3	77. 1 96. 6 120. 7 104. 2 81. 4	112.6 93.0 95.5 75.3 135.5
Meridian Natchez Vicksburg	608 583	271 458 277 651	41 40 26 43	38.7 24.0 16.8 24.1	38.8 24.4 20.6 26.0	17. 2 18. 8 21. 2 36. 0	16.8 18.0 21.6 38.7	67. 4 68. 6 118. 2 98. 9	47. 9 96. 6 108. 6 74. 8
Montana: Anaconda Billings Putte	251 446 662	140 211 597	15 42 59	20.0 24.8 15.4	18, 0 22, 0 14, 2	11, 2 11, 7 13, 9	0, 9 12, 3 13, 7	59. 8 94. 2 89. 1	67.3 93.8 87.5
Great Falls Helena Missoula	689 205 384	278 164 214	40 18 20	23. 1 17. 0 30. 3	25. 5 22. 8 33. 3	9, 3 13, 6 16, 9	10. 7 15. 1 16. 9	58, 1 87, 8 52, 1	63. 9 65. 5 52. 1
Nebraska Grand Island Hesting Lancoln North Platte Cmalia	362 333 1, 316 209 4, 871	224 177 783 119 2, 810	34 25 85 20 329	23. 2 25. 7 21. 6 15. 3 23. 0	24. 1 24. 5 22. 0 19. 4 24. 4	14. 4 13. 7 12. 8 8. 7 13. 3	17.6 14.8 12.1 10.4 12.7	93, 9 75, 1 64, 6 95, 7 67, 5	94. 9 89. 7 57. 0 90. 6 67. 2
New Hampshire:  Berlin Concord Dover Keene	517 463 284 326	173 489 232 206	45 28 15 20	27.9 20.5 21.8 27.5	30. 6 21. 5 23. 8 26, 8	9.3 21.7 17.8 17.4	10.3 19.0 14.4 16.3	87. 0 60. 5 63. 4 61. 3	84.8 53.8 87.1 70.4
Laconia Manchester Nashua Portsmouth	276 1, 838 791 320	229 921 416 196	33 184 68 25	24.4 22.1 26.6 22.1	29. 4 25. 7 28. 3 18. 2	20. 3 11. 1 14. 0 13. 2	16.5 11.9 12.4 12.5	119. 6 100. 1 86. 0 76. 0	63. 6 93. 1 73. 2 71. 2
New Jersey: Asbury Park Atlantic City Bayonne Belleville Bloomfield		145 1, 076 714 232 188	12 93 147 28 11	16. 6 23, 1 24. 3 18. 3 10. 2	15. 0 23. 9 24. 5 19. 0 11. 2	10.6 20.2 8.0 12.3 7.2	10.8 18.6 8.4 13.1 7.1	52. 9 75. 5 68. 2 80. 9 41. 4	59. 7 76. 9 71. 6 88. 8 77. 7
Bridgeton Camden Carteret ('lifton East Orange	340 3,100 285 549 282	238 1,775 70 212 453	28 27] 22 28 19	23. 6 24. 2 20. 3 15. 8 4. 7	24.4 25.9 22.5 16.9 5.2	16.5 13.8 5.4 6.1 7.6	15.3 13.8 6.5 6.9 6.3	82.4 87.2 77.2 51.0 67.4	85, 5 90, 6 92, 1 78, 4 62, 0

Births and deaths (exclusive of stillbirths), with rates per 1,000 population, and infant mortality, in the birth registration area, 1925—Continued

	Number, 1925				Rate per 1,000 population				Deaths under 1 year per	
Area		Deaths		Births		Deaths		1,0 bir	90	
	Births	All ages	Under 1 year	1925	1924	1925	1024	1925	1924	
REGISTRATION CITIES—continued										
New Jersey—Continued.  Rilzabeth. Englewood Garfield. Gioucester Hackensack	2,586 600 662 231 950	1,198 273 141 119 419	154 40 44 24 58	(c) 47. 7 26. 9 17. 1 48. 2	(°) 48 7 27. 9 17. 6 43. 9	(°) 21.7 5.7 8.7 21.3	(°) 19.9 6.8 10.1 19.7 8.8	59.6 66.7 66.5 102.6 61.1	66.6 72.8 66.7 63.6 58.8	
Harrison Hoboken Irvington Jersey City Kearny	302 1,326 598 6,904 534	145 904 328 3,675 285	25 84 43 471 34	18. 4 19. 5 18. 0 21. 9 17. 1	23.7 21.6 16.8 23.6 16.0	8.8 13.3 9.9 11.7 9.1	14 0 8.9 12.2 10.0	82.8 63.3 71.9 68.2 63.7	69 9 71. 3 44. 9 76 6 65. 6	
Long Branch. Milivulle. Montclair. Morristown New Brunswick.	611	471	52	44.8	41.6	34.5	29.0	85.1	84.7	
	303	182	25	19.0	23.0	11.4	10.9	82.5	74.6	
	363	290	32	11.0	10 9	8.8	7 1	88.2	88.6	
	572	360	52	45.5	42.6	28.6	22.8	90.9	61.7	
	979	495	. 60	25.8	30 3	13.0	14.2	61.3	58.8	
Newark Orange Passaic Paterson Perth Amboy	10, 860	5,308	731	24. 0	25.7	11.7	11.2	67. 6	64. 6	
	1, 779	619	89	50 3	49.5	17.5	15.0	50. 0	45. 1	
	1, 764	726	117	25. 6	28.0	10.5	9.2	66. 3	64. 6	
	3, 088	1,711	195	21. 8	22.0	12.1	12.1	63. 1	64. 9	
	1, 084	484	107	23 0	26.3	10.3	10.5	98. 7	79. 9	
Phillipsburg	401	205	28	21. 5	20.8	11.0	11.5	69.8	86, 1	
Plainfield	919	427	59	28. 9	31.5	13.4	13.7	64.2	55, 3	
Rahway	291	162	16	24. 2	19.4	13.5	10.9	55.0	69, 9	
Summut	320	168	16	27. 4	27.2	14.4	14.9	50.0	-51, 8	
Trenton Union City. West New York. West Orange.	3,072	1,874	245	23 3	24.5	14.2	11.4	79.8	92.6	
	1,082	417	41	17.1	19.4	6.6	7.1	37.9	55.0	
	678	225	35	17.3	17.5	5.7	3.4	51.6	33.6	
	153	127	7	8.4	11.0	7.0	7.5	45.8	67.0	
New York: Albany. Amsterdam Auburn. Batavia. Beacon	2,518 832 774 475 159	1,846 392 515 208 158	190 59 57 30	21.4 23.6 21.7 30.4 13.7	20.5 23.7 21.0 27.1 18.1	15.7 11.1 14.4 17.1 13.6	15.6 11.5 13.1 15.2 16.3	75. 5 70. 9 73. 6 63. 2 44. 0	71.8 52.0 76.0 60.4 101.0	
Binghamton Buffalo Cohoes Corning Cortland	1, 512	15 055	108	21.0	21.6	14.7	15.1	71.4	74.1	
	12, 473	7, 437	1,076	23.2	24.2	13.8	13.1	86.3	84.0	
	476	292	38	20.4	22.7	12.5	12.5	79.8	83.3	
	392	185	18	24.9	26.0	11.8	14.0	45.9	70.7	
	365	270	24	26.3	26.7	19.5	19.1	65.8	103.3	
Dunkirk	425	221	27	21.3	25.5	11.1	13.7	63. 5	81.2	
	1,058	734	88	21.9	23.3	15.2	13.7	83. 2	88.0	
	333	177	19	26.6	27.0	14.1	12.6	56. 7	76.2	
	401	208	30	25.2	24.5	13.1	13.8	74. 8	65.1	
	385	313	31	21.6	23.8	17.5	17.9	80. 5	95.2	
Gloversville Herkuner Hornell Hudson Hion	370	37.2	24	16.7	18.7	16.8	16.6	64.9	58. 1	
	254	131	16	23.3	24.1	12.0	12.3	63.0	65. 1	
	296	202	16	18.8	19.0	12.8	12.5	54.1	63. 8	
	407	288	41	34.6	31.2	24.5	19.3	100.7	73. 6	
	162	121	12	15.5	21.1	11.6	15.8	74.1	86. 8	
Ithaca	401	296	29	21. 2.	24, 0	15.6	16. 5	72. 3	53.7	
Jamestown	1,011	527	65	23. 3	21, 8	12.1	12. 6	64. 3	70.0	
Johnstown	129	112	9	12. 0	11, 0	10.5	12. 2	69. 8	42.4	
Kingston	588	546	49	20. 9	21, 5	19.4	18. 4	83. 3	66.8	
Lackawanna	928	344	111	45. 9	46, 0	17.0	14. 3	119. 6	102.1	
Little Falls Lockport Middletown Mount Vernon Now Rochelle	250 469 330 1,030 869	169 227 490 455 382	18 28 23 43 40	20. 1 21. 6 16. 2 20. 4 19. 7	26. 2 22. 5 18. 6 20. 8 18. 5	13.6 15.1 20.0 9.0 8.6	14. 0 13. 9 21. 9 9. 0	72. 0 81. 0 69. 7 41. 7 46. 0	82.3 41.1 56.1 61.8 49.1	

Population not estimated.

Births and deaths (exclusive of stillbirths), with rates per 1,000 population, and infant mortality, in the birth registration area, 1925—Continued

AMPRICATED AND AND AND AND AND AND AND AND AND AN	· Nu	ımber, 192	3	Rat	e per 1 lat	,000 pe	opu-	Deaths under 1 year per 1,000	
Arca		Dea	ths	Bir	ths	De	aths	1, bir	000 ths
	Births	All ages	Under 1 year	1925	1924	1925	1924	1925	1924
REGISTRATION CITIES—continued	_								
New York—Continued. New York (total) Bronx borough Bronx borough Brooklyn borough Manhattan borough Queens borough Richmond borough	128, 288	71, 819	8, 234	21. 8	22. 3	12. 2	12. 2	64. 2	67. 7
	15, 660	8, 355	870	18. 0	17. 9	9. 6	9. 3	55. 6	59. 7
	51, 147	23, 748	3, 034	23. 2	23. 3	10. 8	11. 3	59. 3	63. 5
	47, 060	31, 374	3, 349	24. 2	25. 0	16. 1	15. 3	71. 2	73. 9
	11, 445	6, 124	800	16. 0	16. 7	8. 6	9. 7	69. 9	69. 2
	2, 976	2, 218	181	21. 5	21. 7	16. 0	12. 8	60. 8	69. 5
Newburgh Niagara Falls North Tonawanda Ogdensburg Olean	636 1, 579 411 428 544	501 688 191 432 280	44 134 29 47 44	20. 9 27. 7 23. 7 25. 1 25. 5	20. 6 28. 7 20. 8 25. 1 23. 7	16. 5 12. 1 11. 0 25. 3 13. 1	15. 7 10. 1 11. 8 27. 4 13. 4	69. 2 84. 9 70. 6 109. 8 80. 9	62. 4 62. 3 93. 0 107. 7
Oneida	232	163	16	21. 8	25. 9	15.3	15. 2	69. 0	50.75
Oneonta	266	188	21	22. 1	22 5	15.6	16. 1	78. 9	74.83
Ossining	285	181	13	22. 3	21. 0	14.2	14. 1	45. 6	46.40
Oswego	462	285	. 31	20. 7	20. 1	12.7	13. 2	67. 1	92.37
Pcekskill	301	214	14	16. 7	21. 0	11.9	10. 8	46. 5	70.2
Platisburg	337	230	34	29. 2	30. 2	19.9	20. 9	100. 9	89. 6
Port Chester	580	193	30	30. 1	34. 0	10.0	10. 9	51. 7	53. 1
Port Jervis	212	172	19	20. 2	21, 4	16.4	18. 2	89. 6	93. 8
Poughkeepsie	673	498	48	18. 9	19. 3	14.0	14. 3	71. 3	91. 8
Rensselaer	89	98	6	7. 8	8. 9	8.6	9. 4	67. 4	79. 2
Rochester	6, 583	3, 839	424	20. 8	20. 9	12.1	11. 6	64. 4	58. 8
Rome	689	482	58	22. 7	24. 8	15.9	16. 8	84. 2	58. 4
Saratoga Springs	292	301	18	21. 0	21. 6	21.7	20. 3	61 6	37. 0
Schenectary	1, 819	1, 057	124	19. 6	20. 0	11.4	10. 9	68 2	65. 7
Syraonse	4, 120	2, 292	280	22. 6	23. 0	12.6	12. 5	68. 0	69. 4
Tonawanda	249	101	26	22. 1	20. 5	8.9	9. 4	104. 4	70. 5
Troy. Utica. Watertown. Watervliet. White Plains. Yonkers.	1, 485	1, 354	146	20. 6	20. 9	18.7	18. 3	98. 3	92. 0
	2, 290	1, 513	172	22. 5	24. 1	14.9	15. 6	75. 1	81. 1
	855	540	66	26. 0	26. 0	16.4	16 4	77. 2	95. 7
	213	184	18	13. 2	13. 7	11.4	10. 4	84. 5	122. 2
	583	312	30	21. 3	20. 6	11.4	10. 2	51. 3	47. 9
	2, 317	1, 143	159	20. 4	21. 4	10.1	9. 8	68. 6	72. 1
North Carolina: Asheville Charlotte. Durham. Gastonia Goldsboro.	933	705	92	29 6	31. 5	22. 4	24. 0	98, 6	105, 6
	1, 616	833	155	30, 3	32. 0	15. 6	15. 7	95, 9	79, 2
	1, 069	583	127	25 3	25. 6	13. 8	17. 7	118, 8	118, 7
	576	202	47	34, 1	41. 0	12. 0	10. 8	81, 6	55, 8
	413	233	48	29, 0	27. 4	16. 4	17. 6	116, 2	125, 0
Greensboro	1, 242	568	108	21.4	31. 0	12, 1	11. 8	87, 0	68, 0
High Point	808	319	87	34.2	34. 0	13, 5	14. 2	105, 2	93, 2
New Bern	278	231	40	22.8	21. 6	18, 9	18. 3	143, 9	130, 0
Raleigh	845	672	87	27.8	30. 1	22, 1	20. 7	193, 0	108, 3
Rocky Mount	480	274	50	31.8	34. 5	18, 1	18. 9	122, 9	92, 9
Salishury	449	191	35	25 4	27.3	10, 8	10. 7	78.0	60.3
Wilmington	1, 009	550	110	27,2	27.1	14, 8	15. 7	109.0	127.9
Wilson	420	264	61	32,8	36.5	20, 6	17. 6	145.2	101.5
Winston-Salem	1, 837	877	215	26,6	29.2	12, 7	15. 9	117.0	136.5
North Dakota: Fargo Grand Forks Minot	794	304	34	31. 9	32.3	12. 2	13. 7	42. 8	78. 2
	497	151	17	32. 8	32.8	10. 0	10. 9	34. 2	40. 6
	273	210	28	22. 3	20.4	17. 1	13. 1	102. 0	85. 4
Ohio: Akron Alliance Ashtabula Baj berton Bellaire	4, 836	1, 901	311	(°)	(c)	(°)	(°)	64. 3	60.9
	440	280	30	17.6	21.1	11.2	10. 6	68. 2	79.9
	592	209	32	23.6	24.6	11.9	11. 4	54, 1	61.1
	562	204	48	24.1	22.0	8.8	9. 9	85. 4	87:0
	354	175	21	21.8	24.4	10.8	12. 0	59. 3	115.1
Bucyrus Cambridge Canton Chilliethe Cincinnati	205	149 211 1, 169 286 6, 526	10 20 180 28 047	17.5 21.1 22.4 26.1 20.4	17.8 28.2 24.2	12.7 15.0 10.4 14.2 15.9	11.0 13.1 10.1 14.2	48, 8 67, 6 75, 8 64, 5 77, 3	58. 5 40. 5 80, 5 75. 4 78. 7

[·] Population not estimated.

Births and deaths (exclusive of stillbirths), with rates per 1,000 population, and infant mortality, in the birth registration area, 1925—Continued

,	N	ımber, 192	5	Rat	e per l	,000 pe	pnı-	Deaths under 1 year per	
Area	,	Dec	iths	Bir	ths	Deaths		1,0 bir	00 ths
	Births	All ages	Under 1 year	1925	1924	1925	1924	1925	1924
REGISTRATION CITIES—continued									
Ohio—Continued. Cleveland Cleveland Heights Columbus. Coshocton Cuyahoga Falls Dayton	20, 047	9, 709	1, 325	21. 4	23.0	10. 4	10. 2	66. 1	66. 1
	49	207	7	2. 2	4.1	9. 3	8. 6	142. 9	46. 5
	5, 575	3, 894	446	19. 9	21.2	13. 9	13. 2	80. 0	65. 3
	267	142	11	23. 1	17.9	12. 3	12. 0	41. 2	83. 3
	244	110	8	17. 8	18.9	8. 0	7. 4	32. 8	28. 3
	3, 172	1, 962	182	18. 3	19.6	11. 3	10. 9	57. 4	72. 1
Dayton	116	212	6	3. 1	3. 2	5. 6	6.4	51. 7	149, 1
	582	370	43	26. 5	30. 1	16. 8	14.1	73. 9	60, 8
	423	115	58	26. 5	27. 6	7. 2	7.8	137. 1	108, 5
	554	272	32	23. 2	22. 7	11. 4	11.2	57. 8	56, 8
Findlay Frement Hamilton Irouton Kenmore	409	267	23	22. 4	20.6	14. 6	13. 6	56. 2	78. 0
	217	121	12	15. 6	15.6	8. 7	8. 8	55. 3	75. 1
	1, 202	576	89	28. 4	27.7	13. 6	12. 7	74. 0	69. 9
	399	228	32	27. 5	27.0	15. 7	15. 8	80. 2	90. 0
	389	104	24	20. 1	20.3	5. 4	4. 4	61. 7	62. 0
Lakewood	672	430	31	11.8	13.1	7.6	7. 4	46. 1	54. 9
Lancester	350	207	33	21.8	23.3	12.9	14. 4	94. 3	70. 3
Lima	1,074	583	75	23.0	24.1	12.5	12. 4	69. 8	72. 6
Lorain	985	417	73	23.3	25.6	9.9	10. 2	74. 1	54. 8
Mansfield	622	391	48	19.5	21.2	12.3	10. 7	77. 2	68. 2
Marietta Marion Martins Ferry Massilion Muddletown	297	194	22	19.5	20.9	12. 7	14, 6	74. 1	100. 6
	626	332	35	19.3	20.6	10. 2	10, 2	55. 9	59. 8
	368	215	30	23.7	19.4	13. 8	13, 5	81. 5	107. 7
	467	242	22	24.2	23.7	12. 5	13, 0	47. 1	64. 6
	843	285	54	27.3	20.1	9. 2	9, 8	64. 1	73. 0
New Philadelphia	301	100	16	25. 1	23.4	8.3	9. 4	53. 2	25. 4
Nowark	568	379	32	18. 6	20.2	12.4	12. 5	56. 3	81. 4
Nites	262	106	24	15. 8	20.9	6.4	5. 8	91. 6	62. 5
Nor wood	205	178	9	6. 8	7.0	5.9	6. 4	43. 9	93. 1
Piqua	29 <del>9</del>	229	24	18. 7	19.2	14.3	15. 1	80. 3	79. 2
Pertsmouth Salem Sandusky Springfield Siguiban ville	1, 046	529	162	26.8	29. 1	13. 5	13.6	97. 5	88. 6
	284	176	14	25.6	26. 3	15. 9	15.5	49. 3	59. 0
	489	318	29	19.9	22. 3	13. 0	13.0	59. 3	53. 7
	1, 300	893	100	18.9	18. 7	12. 1	13.0	76. 9	59. 6
	751	460	85	23.5	25. 1	14. 4	15.2	113. 2	94. 0
Tiffin	318	223	15	20. 4	17. 1	14.3	13. 7	47.2	106, 9
Toledo	5, 415	3, 494	438	18. 8	20. 7	12.2	11. 7	80.9	69, 1
Warreu	885	462	73	25. 5	26. 2	13.3	12. 0	82.5	65, 4
Youngstown	4, 133	1, 706	304	25. 8	27. 5	10.7	10. 7	73.6	72, 3
Zanesville	781	510	58	25. 7	26. 9	16.8	16. 0	74.3	89, 7
Oregon: Astoria. Eugeno Portland Salem	247	139	19	14. 9	17. 8	8. 4	9, 8	76. 9	42. 0
	452	274	24	39. 6	39. 4	24. 0	20, 8	53. 1	29. 7
	5, 183	3, 330	238	(°)	18. 7	(°)	11, 7	45. 9	53. 6
	, 395	664	23	20. 0	20. 0	33. 7	32, 8,	58. 2	54. 3
Pennsylvania: Allentown. Altoona Ambridge Beaver Falls. Berwick	1, 912	1, 283	176	20. 7	20.9	13. 9	13.1	92.1	97. 7
	1, 694	812	142	25. 6	26.6	12. 3	11.0	83.8	54. 7
	417	110	28	24. 5	21.6	6. 5	5.5	67.1	71. 2
	346	213	40	26. 3	24.2	16. 2	16.6	115.6	91. 5
	296	131	16	20. 9	25.7	9. 3	10.3	54.1	72. 2
Bethlehem Braddock Bradford Bristol Bristol	1, 217	421	93	19. 4	21, 9	6. 7	7.6	76.4	63. 4
	733	323	68	33. 7	33, 3	14. 9	18.1	92.8	116. 8
	435	253	34	27. 5	25, 1	16. 0	15.9	78.2	50. 5
	337	132	28	26. 2	28, 2	10. 3	10.4	83.1	80. 6
	525	310	48	20. 8	23, 2	12. 3	10.8	91.4	57. 0
Canonsburg	327	114	22	24. 2	25. 4	8. 5	9.7	67.3	75.8
Carbondale	551	319	64	28. 2	30. 4	16. 3	15.1	110.2	98.5
Garlisle	296	179	16	25. 9	24. 6	15. 6	18.1	54.1	79.4
Oarnegie	268	85	16	21. 7	25. 4	6. 9	8.4	59.7	77.4
Carrick	209	102	15	16. 1	20. 0	7. 9	7.8	71.8	71.7

c Population not estimated.

^{97385°--26----2} 

Births and deaths (exclusive of stillbirths), with rates per 1,000 population, and infant mortality, in the birth registration area, 1925—Continued

,	Nu	mber, 1925	,	Rate	per 1,	.000 po on	pu-	Deaths under 1 year per	
. Area		Deaths		Birt	Births		iths	1,0 birt	00
	Births	All ages	Under 1 year	1925	1924	1025	1924	1925	1924
REGISTRATION CITIES—continued									
Pennsylvania—Continued. Chambersburg Charleroi. Chester. Coatesville Columbia. Connellsville Dickson City Donora. Du Bois Dumore.	318 314	211 88 749 132 159 106 121 174 260	20 18 136 22 22 22 24 31 38 28 62	20. 6 23. 0 18. 8 15. 4 25. 4 22. 2 26. 1 23. 3 22. 5 21. 1	22.5 21.9 23.4 17.4 26.3 21.9 30.1 29.0 27.2 24.2	15. 1 7. 0 10. 9 8. 0 14. 7 11. 1 8. 8 7. 1 12. 2 12. 0	13.8 8.3 10.3 7.1 14.5 12.2 7.8 7.3 12.1 11.9	69. 7 62. 1 104. 9 86. 6 80. 0 75. 5 98. 7 95. 7 87. 2 135. 1	74.0 103.3 87.3 75.0 101.8 80.1 78.7 91.9 62.2 142.3
Duquesne Easton Erie Farrell Greensburg	545 850 2, 671 414 438	157 641 1, 296 118 262	45 69 173 29 30	26, 1 23, 1 (c) 22, 2 27, 3	25. 1 21. 6 (e) 23. 1 27. 9	7. 5 17. 4 (c) 6. 3 16. 3	9. 0 17. 0 (c) 9. 2 17. 1	82.6 81.2 64.8 70.0 68.5	120. 4 84. 4 66. 7 145. 6 56. 4
Harrisburg Hazleton Homestead Jeanette Johnstown	1, 607 1, 025 560 379 2, 180	1,176 488 254 119 1,020	132 93 50 31 191	19.3 28.4 26.1 32.3 30.5	20.6 28.6 24.8 28.9 32.3	14. 1 13. 5 11. 8 10. 1 14. 3	14.3 12.4 14.6 7.5 13.2	82. 1 90. 7 89. 3 81. 8 87. 6	75. 7 75. 9 115. 7 38. 9 82. 3
Lancaster Lebanon McKees Rocks McKees Port Mahoney City	1,475 589 463 1,329 357	957 353 138 690 205	131 36 32 108 45	26.1 23.4 25.6 27.1 22.9	25. 9 23. 5 25. 6 28. 6 22. 2	16.9 14.0 7.6 14.1 13.1	17.2 16.4 8.1 16.4 11.0	88.8 61.1 69.1 81.3 126.1	84.3 90.0 72.1 97.6 95.1
Meadville Monessen Mount Carmel Nanticoke New Castle	737 1,319	270 123 180 366 588	32 40 44 80 94	26.4 28.9 29.8 26.5	24.4 27.5 33.8 31.3 28.9	17.3 5.8 10.3 14.8 11.8	14.1 8.5 11.8 14.2 12.3	82.1 71.4 87.1 108.5 71.3	61.3 105.4 84.7 87.9 77.7
New Kensington Norristown North Braddock Oil City Old Forge	820 387 565 355	220 704 117 271 112	28 86 23 37 38	23.5 23.2 24.3 27.8	32.6 24.3 25.8 23.6 30.0	15.3 20.2 7.0 11.7 8.8	14.5 20.2 8.0 11.6 12.3	62.9 104.9 59.4 65.5 107.0	65. 9 83. 9 118. 2 70. 4 94. 7
Olyphant Philadelpha Phoenixville Pittsburgh Pittston	1 0/0	26,047 148 9,383 217	3,005 23 1,280 69	19.8 27.3 24.9 29.0	23.3 21.3 31.1 25.1 33.9	10.1 13.2 14.1 14.9 12.5	7.6 12.9 18.1 15.5 11.8	74.4 76.8 80.4 81.5 120.4	116.7 74.7 79.8 91.8 80.1
Plymouth. Potistown. Potisville Punssutawney Reading	452 415 572 223 2,260	162 274 486 145 1,474	39 45 63 18 180	20.1	29. 5 23. 7 27. 1 25. 5 21. 2	9.8 14.8 20.4 13.2 13.1	10.0 14.6 20.5 15.1 13.5	86.3 108.4 110.1 80.7 79.6	70.1 64.5 93.0 89.9 79.0
Scranton Shamokin Sharon Shenandoah Steelton		1, 957 203 282 288 144	274 38 36 90 20	24 3 25.1	23. 2 23. 6 23. 0 29. 8 21. 9	13.8 9.3 11.3 11.6 10.7	14.0 9.1 12.4 11.7 9.5	86. 7 74. 7 59. 3 145. 2 64. 7	85.8 58.7 78.4 100.5 105.4
Sunbury Swissy ale Tamaqua Uniontown Warren Washington	367 198 262 523 375 675	180 110 122 414 201 396	15 8 17 44 15 67	15.3 18.7 33.3 24.8 29.3	20. 7 16. 2 19. 8 39. 4 28. 7 31. 9	10.7 8.5 8.7 26.4 13.3 17.2	11.0 8.0 7.0 21.8 14.6 14.1	84.1 40.0 09.3	58.1 59.1 55.4 58.2 65.1 89.8
West Choster. Wikes-Barre. Wikes-Barre. Wikes-Barre. Wikes-Barre. Wikes-Barre. Wikes-Barre. Wikes-Barre. Wikes-Barre.	383 2,271 591 1,018 535 1,050	123	23 98 41	29. 2 21. 6 23. 9 28. 8	35.0 29.9 23.6 23.0 27.0 23.1	26. 6 15. 1 12. 9 13. 3 6. 5 15. 0	14.0 7.6	81.0 38.9 96.3 76.6	117.1 65.2 53.7 66.0 85.6 75.4

⁻ Population not estimated.

Births and deaths (exclusive of stillbirths), with rates per 1,000 population, and infant mortality, in the birth registration area, 1925—Continued

	Nt	ımber, 192	5	Rat	e per 1 lat	,000 pc	pu-	Deaths under 1 year per 1,000	
Area		Dea	nths	Births		Deaths			000 ths
	Births	All ages	Under 1 year	1925	1924	1925	1924	1925	1924
REGISTRATION CITIES—continued									
Rhode Island: Bristol town Central Falls Cranston Cumberland town East Providence town Newport Pawtucket Providence Warwick town West Warwick town Woonsocket	250 555 574 175 467 479 1,475 6,280 276 380 1,435	141 221 641 100 268 396 892 3,308 206 181 522	22 49 34 17 41 26 146 398 20 32 126	19. 7 21. 8 16. 7 17. 1 17. 9 17. 3 21. 1 23. 4 15. 1 20. 9 28. 9	22. 9 25. 5 19. 1 21. 0 17. 7 17. 3 22. 2 24. 9 15. 3 23. 7 27. 5	11.1 8.7 18.6 9.8 10.3 14.3 12.8 12.3 11.3 9.9	10. 5 9. 2 18. 4 11. 4 10. 9 11. 8 12. 9 13. 3 13. 0 10. 2	86. 0 88. 3 59. 2 97. 1 87. 8 54. 3 99. 0 63. 4 72. 5 84. 2 87. 8	111.9 91.8 79.2 84.1 80.0 63.5 84.4 78.7 81.8 94.8
Vermont: Barre Burlington Rutland	279 670 355	157 376 292	12 41 33	27. 9 27. 8 22. 5	24. 2 20. 7 22. 6	15.7 15.6 18.5	13. 9 16. 5 16. 3	43. 0 61. 2 93. 0	74. 4 88. 7 59. 7
Virginia:  Alexandria Cherlottesville	499 284 619 731 582 2, 584 705 1, 007 4, 189 1, 777 153	304 146 341 518 342 1,775 539 643 2,740 839 279	58 27 72 67 52 250 87 97 379 166	27. 0 25. 3 27. 0 24. 1 12. 3 (°) 19. 7 17. 1 22. 5 30. 5 14. 4	28. 9 22. 1 28. 1 27. 3 14. 8 (c) 21. 7 19. 2 23. 7 31. 9 17. 9	16. 5 13. 0 14. 8 17. 0 7. 3 (°) 15. 1 10 9 14. 7 14. 4 26. 2	12.9	116. 2 95. 1 116. 3 91. 7 89. 3 96. 7 123. 4 96. 3 90. 5 93. 4 104. 6	99. 8 89. 4 103. 4 76. 0 91. 1 81. 6 143. 8 122. 9 87. 6 85. 0 128. 3
Washington: Aberdeen Bellingham Everett Hoquiam Seattle Spokane Tacoma. Vancouver Walla Walla Yakima.	396 679 594 214 5, 416 2, 248 2, 207 298 300 621	247 382 333 115 3, 872 1, 386 1, 243 156 215 348	21 34 20 15 243 123 -97 13 22 48	24. 5 25. 9 20. 3 19. 2 (*) 20. 6 21. 1 20. 5 19. 4 27. 4	24. 0 23. 6 20. 9 23. 0 (e) 22. 2 21. 7 17. 8 21. 5 27. 9	15.3 14.6 11.4 10.3 (*) 12.7 11.9 10.7 13.9 15.4	10. 0 12. 3 11. 5 9. 0 (e) 12. 5 11. 1 11. 0 13. 5 15. 6	58. 0 50. 1 48. 8 70. 1 44. 9 54. 7 44. 0 43. 6 73. 3	31. 2 58. 3 56. 1 67. 7 46. 0 51. 7 56. 8 71. 4 48. 0 75. 8
West Virginia: Bluefield Charleston Clarkesburg Fairmont Huntington Martinsburg Morgantown Moundsville Parkersburg Wheeling	585 1,401 921 546 1,667	257 809 381 305 980 270 230 141 307 1,001	61 136 66 41 183 55 42 23 42 137	30. 2 28. 6 30. 3 26. 1 26. 3 26. 1 37. 6 31. 9 23. 2 29. 1	(b) (b) (b) (b) (b) (b) (b)	13.3 16.5 12.5 14.6 15.4 19.9 16.7 12.1 14.4 17.8		104. 3 97. 1 71. 7 75. 1 109. 8 155. 8 80. 9 61. 8 85. 0 83. 6	33333 33333
Wisconsin: Appleton Ashland Beloit Eau Claire Fond du Lec Green Bay Jancsville Kenocha La Crosse Madison	521 321 538 683 718	270 263 258 386 396 543 264 387 518 598	37 25 43 39 49 73 27 62 51	24.6 28.3 21.7 30.5 27.6 28.3 19.7 21.9 31.5 27.0	23. 8 28. 2 22. 7 29. 1 28. 0 30. 2 21. 1 22. 4 30. 3 25. 3	12.8 23.2 10.4 17.3 15.2 15.8 12.2 7.6 17.0 12.9	15. 6 23. 1 9. 9 15. 4 14. 1 15. 7 11. 2 7. 3 17. 3	71. 0 77. 9 79. 9 57. 1 68. 2 75. 3 65. 9 55. 6 53. 2 43. 2	100. 8 75. 0 51. 0 70. 0 58. 7 64. 8 65. 1 56. 3 48. 2

<sup>Not in the registration area in 1924.
Population not estimated.</sup> 

Births and deaths (exclusive of stillbirths), with rates per 1,000 population, and infant mortality, in the birth registration area, 1925—Continued

	Nu	Rate per 1,000 population				Deaths under 1 year per			
Area		Deaths		Births		Deaths		1,000 births	
	Births	All ages	Under 1 year	1925	1924	1925	1924	1925	1924
REGISTRATION CITIES—continued									
Wisconsin—Continued. Manitowoc. Marinette Milwaukee. Oshkosh Recine.	11, 059	231 170 5,601 431 572	37 26 900 35 86	24, 1 25, 0 21, 7 23, 4 20, 3	23.6 24.5 22.9 23.1 19.8	10. 4 12. 5 11. 0 13. 0 8. 4	11.3 14.7 9.8 13.6 8.1	69. 4 76, 5 81. 4 45. 0 62. 6	77.4 123.1 69.6 71.8 61.8
Sheboygan Stevens Point Superior Wankesha Wausau West Allis.	778 334	398 139 456 144 259 135	53 23 45 21 47 38	25.4 25.1 19.6 22.7 30.5 24.2	25. 2 27. 2 22. 4 23. 2 29. 9 26. 3	11. 9 10. 8 11. 5 9. 8 12. 9 7. 4	11.6 13.0 11.0 9.0 14.7 7.7	62.3 71.2 57.8 62.9 76.7 85.6	55. 2 87. 5 64. 0 69. 1 85. 9 60. 0
Wyoming: CasperChayenne	611 394	237 176	33 18	(°) 25.5	(°) 25.8	(°) 11.4	(°) 11.4	54.0 45.7	73.9 71.4

[·] Population not estimated.

# PATIENTS IN HOSPITALS FOR MENTAL DISEASES

Information regarding the patient population of hospitals for mental diseases in the United States has been collected by the Public Health Service, and the following table gives the data for the month of March, 1926, for 89 hospitals, situated in 23 States. Nearly all the institutions reporting are operated by State authorities, but several private institutions in Maryland and some county institutions in Pennsylvania are included.

The reports were received from the central State authorities having charge of the hospitals, or directly from the superintendents of the individual institutions.

Reports received from some hospitals are not included in the table for the reason that they were incomplete, or the data given were inconsistent in some particulars.

Patients on books March 1, 1926:	•	
In hospitals	114,	007
On parole or otherwise absent but still on books	9,	512
Total	123,	519
Admitted during month:		
First admissions.	2,	245
Readmissions		434
Transferred to hospital from hospital in same State	1	275
Total admitted during month	2,	954
Total on books during month	126.	473

¹ Transfers were made to and from hospitals which are not included in the table.

Discharged during month:		
As recovered	3	70
As improved	5'	78
As unimproved	1.	59
As without psychosis	5	27
Otherwise discharged	:	31
Total discharged during month	1, 10	65
Transferred from hospital to hospital in same State	1 2	30
Died during month	1, 19	98
Total discharged, transferred, and died (month)	2, 59	93
Patients on books March 31, 1926:		
In hospitals	114, 34	41
On parole or otherwise absent but still on books	9, 5	39
Total	123, 88	
Males	63, 70	
Females	60, 17	79

The total number of patients in institutions reporting was 123,519 on March 1, 1926, and 123,880 on March 31. The increase for the month was 361 patients (0.29 per cent).

Fifty-one and five-tenths per cent of the patients were males and 48.5 per cent were females.

The average number of patients on parole was 9,525, or 7.7 per cent of the average total population.

Eleven hundred and ninety-eight deaths of patients were reported during the month.

Three hundred and seventy patients were discharged as recovered, 578 as improved, and 159 as unimproved. Twenty-seven were discharged as without psychosis.

# DEATHS DURING WEEK ENDED MAY 29, 1926

Summary of information received by telegraph from industrial insurance companies for week ended May 29, 1926, and corresponding week of 1925. (From the Weckly Health Index, June 2, 1926, issued by the Burcau of the Census, Department of Commerce)

	Week ended May 20, 1926	Corresponding week, 1925
Policies in force	64, 584, 020	60, 037, 150
Number of death claims	12, 478	10, 495
Death claims per 1,000 policies in force, annual rate_	10. 1	9. 1

¹Transfers were made to and from hospitals which are not included in the table.

Deaths from all causes in co.tain large cities of the United States during the week ended May 23, 1936, infunt mortality, annual death rate, and comparison with corresponding week of 1935. (From the Weekly Health Index, June 2, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week en 29,	ded May 1926	Annual death rate per	Deaths	Infant mortality	
City	Total deaths	Death rate 1	1,000 corre- sponding week, 1925	Week ended May 29, 1926	Corresponding week, 1925	rate, week ended May 29, 1926 ²
Total (65 citics)	6, 998	12.7	12.4	868	776	8 60
Akron Albany 4 Atlanta White. Colored Bultimore 1 White. Colored Burningham White. Colored Boston Bridgeport Buffalo Cambridge Camden Canton Cheago 1 Cieveland Columbus Dallas White. Colored Dayton Des Mones Detroit Duluth El Paso Erie Fail River 4 Filit White. Colored Grand Rapids Houston White. Colored Colored Des Mones Detroit Duluth Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Crie Colored Colored Colored Colored Kansas City, Kans White Colored Colored Kansas City, Kans White Colored Colored Kansas City, Kans White Colored Colored Kansas City, Kans White Colored Colored Kansas City, Kans White Colored Los Angeles Louisville White	38 38 74 43 193 149 444 73 36 36 36 36 36 36 36 36 36 36 36 36 36	16.7 15.5 18.0 19.12.5 15.5 15.6 16.7 10.0 13.2 11.2 (9) 14.1 11.9 13.3 12.0 17.7 16.7 12.6 17.7 18.7 19.8 19.8 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5	15. 0 16. 4 10. 0 13. 0 11. 3 14. 4 17. 4 12. 3 12. 2 14. 4 18. 5 13. 0 17. 5 18. 4 19. 7 19. 10 10. 9 11. 2 14. 8 10. 2 10. 2	9 3 3 12 7 5 6 12 4 4 8 7 7 1 1 1 8 5 3 5 5 4 8 9 7 7 7 1 5 5 8 8 8 10 8 2 4 4 1 0 0 1 9 6 3 5 5 1 4 9	23 23 22 23 8 4 6 6 1000 77 17 8 14 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	96 63 47 43 65 146 66 135 200 68 93 88 0 0 110 23 110 132 146 135 146 135 146 135 146 135 146 135 146 135 146 135 146 135 146 135 146 146 146 146 146 146 146 146 146 146
Colored	22 33 23 69 26	(6) 11.5 20.3	7.1 17.0	20 12 10 2 0 2 10 7	1 2 7	125 0 50
Colored Milwaukee Minneapolis Nashville 4	43 101 108 39	( ⁵ ) 10. 2 13. 0 14. 8	13.5 9.4 15.3	7 3 18 16 4	20 6 5	83 89

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.

⁵ Data for 65 cities.

⁶ Laths for week ended Friday May 23, 1926.

⁶ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following persontages of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Fort Worth 14, Housing 25, Kansis City, Kans. 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Rickmond 32, and Washington, D. C. 25.

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Deaths from all causes in certain large cities of the United States during the week ended May 29, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, June 2, 1926, issued by the Bureau of the Census, Department of Commerce)—Continued

	Week en 29,	đed May 1926	Annual death rate per	Deaths	Infant mortality	
. City	Total deaths	Death rate	1,000 corre- sponding week, 1925	Week ended May 29, 1926	Corresponding week, 1925	week ended May 29, 1926
New Bodford New Haven New Orleans White Colored Bronx Borough Bronx Borough Brooklyn Borough Gueens Borough Richmond Borough Newark, N. J Norfolk White Colored Oakland Oklahoma City Omaha Paterson Philadelphia Pitisburgh Portland, Oreg Providence Richmond White Colored Oreg Providence Richmond Salt Lake City' San Antonio San Prancisco Schenectady	30 64 43 145 15	23. 2 19. 9 (1) 10. 7 16. 3 8. 0 11. 7 8. 7 11. 3 12. 0 13. 3 14. 0 13. 3 14. 0 15. 4 16. 6 17. 8 18. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0 19. 0	1925  7.3 18.2  12.4 9.9 11.2 16.4 8.3 12.1 10.1 11.4  16.5 9.9 13.6 12.2 12.5 17.0  14.8 13.4 9.1 1 12.3 16.1 12.3 16.5 17.0 18.7 10.5	7 7 7 163 14 633 633 17 6 11 1 1 3 3 . 3 3 . 3 3 28 24 24 26 6 3 3 24 4 10 2 2	7 6 21 152 155 65 58 122 2 2 14 5 5 100 7 7 522 18 8 7 7 11 1	122 96 46 64 70 77 105 81 37 30 50 50 50 50 64 64 41 52 84 60 88 88 59 140 66 84 64 64 64 64 64 64 64 64 64 64 64 64 64
Seattle Somerville Spokane Spokane Springfiold, Mass Syracuse Tacoma Toledo Trenton Utica Washington, D. C. White Colored Waterbury Wilmington, Del Worcester Yonkers Youngstown	62 16 21 34 44 28 71 43 44 120 59 61 10	(5) 12.6 16.7 22.7 22.7 21.9 (6) (7) (12.6 17.3 8.1 13.8	11. 1 13. 4 11. 4 7. 2 7. 5 13. 1 17. 0 19. 0 15. 1	123483993123945715	2 7 7 7 3 2 2 2 2 2 1 8 5 4 18 3 3 4 2 2 3	9 52 70 58 104 170 87 50 22 68 25 164 86 64

For footnotes 4 and 5, see p. 1180,

# PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

# UNITED STATES

# CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

# Reports for Week Ended June 5, 1926

ALABAMA	1	California	
	Cases	and a contract of contract	Cases
Chicken pox	28	Cerebrospinal meningitis:	
Dengue.	1	Los Angeles	1
Diphtheria	9	Merced County	1
Influenza	13	Chicken pox	160
Let hargic encephalitis	1	Diphtheria	86
Malaria	31	Influenza	20
Measles	323	Measles	474
Mumrs	22	Muinps	265
Pellagia	36	Poliomyelitis:	
Pneumonia		Chino.	2
Scarlet fever		Inglewood	1
Smallpox		Long locach	1
Tetanus		San Diego	
Trachoma	- 1	Scarlet fever	107
Tuberculosis		Smallpox	27
Typlioid fever		Typhoid fever	
Whooping cough		Whooping cough	
whooling congri-	. 00		•
ARIZONA		COLORADO	
German measles	2	Chicken por	82
Mumps	2	Conjunctivitis	
Pneumonia	4	Diphtheria.	
Scarlet fever	2	Hookworm disease	
Tuberculosis.		Meisles	
Typhoid fever	7	Mumps	
Whooping cough		Pneumonia	-
		Scarlet fever	
ARKANSAS		Smallpox	
Chicken pox	36		
Diphtheria		Trachoma.	
Hookworm disease		Tuberculosis	
Influenza		Vincent's angina	
Majaria		Whooping cough	. 56
Measles		CONNECTICUT	
Mumps	. 7	CONNECTION	
Pellagra.	. 32	Cerebrospinal meningitis	. 2
Scarlet fever	. 29	Chicken pox	. 54
Smallpox	. 3	Diphtheria	. 18
Trachoma.	. 2	German measles	. 25
Tuberculosis	. 14	Influenza	. 6
Typhoid fever	. 8	Mossles.	421
Wheoping cough.		Manage	. 5
		(82)	. •
	(1)	104)	

connecticut—continued	1	IDANO	
	Cases		Cases
Pneumonia (broncho)	24	Chicken pox	. 13
Pneumonia (lobar)		Diphtheria	
Scarlet fever		Measles.	
Tuberculosis (all forms)		Mumps	
Typhoid fever		Rocky Mountain spotted fever:	
Whooping cough		Shoshone	2
W Hooping cough	20	Wendell	
DELAWARE	1		
D19111 17 111111		Scarlet fever	
Chicken pox	. 1	Smallpox	
Measles		Typhoid fever	
Pneumonia		Whooping cough	. 3
Scarlet fever	- 1	ILLINOIS	
Tuberculosis			
Whooping cough		Cerebrospinal meningitis—Cook County	
winooping cough		Diphtheria	71
**************************************	- 1	Influenza	55
DISTRICT OF COLUMBIA		Lethargic encephalitis-Macoupin County	. 1
Chicken pox	27	Measles	1, 133
		Pneumonia	
Diphtheria	1	Scarlet fever	
Measles		Smallpox	
Preumonia			
Scarlet fever		Tuberculosis	
Tuberculesis	. 26	Typhoid fever	
Typhoid fever	. 1	Whooping cough	207
Whooping cough	. 27	indiana	
		Chicken pox	. 51
FLORIDA			
Claush as unional annual moiting	. 1	Diphtheria	
Cerebrospinal meningitis		Influenza	
Chicken pox		Measles	
Dengue		Pneumonia	
Diphtheria		Scarlet fever	. 102
German measles		Smallpox	. 91
Malaria	. 2	Trachoma—Knox County	. 4
Measles	_ 21	Tuberculosis	. 57
Mumps	. 15	Typhoid fever	. 8
Paratyphoid fever	. 1	Whooping cough	10
Pneumonia			
Scarlet fever		Kansas	
Smallpox	-	Chicken pox	. 6
Tetanus		Diphtheria	. (
		German measies	_ 18
Tuberculosis		Influenza	
Typhoid fever	-	Lethargic encephalitis	
Typhus fever		Measles.	
Whooping cough	. 20	Mumps	
ATA D. CT. 1		Pneumonia	
GEORGIA			
Chicken pox	_ 29	Scarlet fever	
Diphtheria		Smallpox	_ 1
Dysentery		Tuberculosis	_ 3
Hookworm disease		Typhoid fever	
	_	Whooping cough	. 12
Influenza	-	LOUISIANA	
Malaria,			
Measics		Diphtheria	
Mumps		Dysentery	
Pellagra	_ 15	Influenza	
Pneumonia	_ 20	Malaria	
Scarlet fever	_ 1	Measles	
Septic sore throat		Pellagra	
Smallpox		Pneumonia	
Tetanus.	_	Scarlet fever	
Tuberculosis		Smallpox	
Typhoid fever		Tuberculosis	
Typhus fever		Typhoid fever	
Whooping cough	_ 12	Whooping cough	_ 2

MAINE		MINNESOTA	
	Cases	BHUUMSVIA	Cases
Cerebrospinal meningitis.	. 1	C'ercbrospinal meningitis.	ı
Chicken pox	. 17	Chicken pox	73
Diphtheria		Diphtheria	36
German measles		Lethargic encephalitis	1
Influenza		Measles	688
Mumps		Pneumonia Scarlet fever	8 209
Pneumonia		Smallpox.	703
Poliomyelitis		Tuberculosis	42
Scarlet fever.		Typhoid fever	1
Tuberculosis.		Whooping cough	37
Typhoid fever			
Whooping cough		MISSISSIPPI	
MARYLAND ¹		Diphtheria	5
		Scarlet fever	3 8
Cerebrospinal meningitis		Smallpox Typhoid fever	10
Chicken pox		Typhota tever	LU
Diphtheria		MISSOURI	
Dysentory		Cerebrospinal meningitis	2
German measles		Chicken pox	36
Influenza		Diphtheria	76
Malaria	_	Influenza	G
Mumps		Measles	661
Ophthalmia neonatorum		Mumps	12
Pneumonia (broncho)		Ophthalmia neonatorum	2
Pneumonia (lobar)		Pneumonia	9
Scarlet fever		Rabies (in animals)	5
Septic sore throat		Scarlet lever	88
Trachoma	. 1	Smallpox	7
Tuberculosis	100	Trachoma	32
Typhoid fever		Tuberculosis	44
Typhus fever		Typhoid fever	10
Whooping cough	. 63	Whooping gough	47
MASSACHUSETTS		MONTANA	
		Chicken pox	5
Cerebrospinal meningitis		Diphtheria	ı
Chicken poxConjunctivitis (suppurative)		German measles	25
Diphtheria.		Measles Scarlet fever	67
German measles		Smallpox	28 12
Influenza		Tuberculosis	2
Let hargie encephalitis.		Typhoid fever	î
Measles		Whooping cough.	7
Mumps	119		•
Oplithalmia neonatorum		NEBRASKA	
Pneumonia (lobar)	60	Chicken pos-	11
Poliomyelitis		Diphtheria	I
Scarlet fever		Mensles Mumps	61
Septic sore throat		Scarlet fever	1 43
Trachoma		Smallpox	19
Tuberculosis (pulmonary)		Whooping cough	19
Tuberculosis (other forms)			
Typhoid fever Whooping cough	177	NEW JEESKY	
•	111	Cerebrospinal meningitis	4
MICHIGAN		Chicken pox	139
Diphtheria		Diphtheria	60
Measles		Influenza	4
Pneumonia		Measles	
Scarlet fever		Pneumonia	110
Small pox		Scarlet fever	192
Tuberculosis		Trachoma.	1
Typhold fever		Typhoid fever	3 69
	, 14	Whooping cough	08
1 Week anded Friday.			

NEW MEXICO		OREGON—continued	G
Chicken pox	Cases 10	Influenza	Cases 9
Conjunctivitis		Lethargie encephalitis	2
Diphtheria		Measles	93
Measles		Mumps	10
Mumps		Pneumonia	2 6
Pellagra		Puerperal septicemia	1
Pneumonia Rabies (in animals)		Scarlet fever Septic sore throat	53 1
Scarlet fever		Smallpox	27
Trachoma		Tuberculosis	16
Tuberculosis	. 6	Typhoid fever	7
Typhoid fever		Whooping cough	43
Whooping cough	. 19	PENNSYLVANIA	
NEW YORK		Anthrax—Philadelphia	2
(Exclusive of New York City)		Cerebrospinal meningitis—Philadelphia	1
Chicken pox	281	Chicken pox	364
Diphtheria		Diphtheria	179
Dysentery		German measles	72 8
German measles		Impetigo contagiosaLethargic encephalitis—Philadelphia	2
Influenza		Measles	
Malaria		Mumps	64
Measles Mumps		Ophthalmia neonatorum—Philadelphia	2
Ophthalmia neonatorum		Pneumoma	28
Pneumonia		Puerperal septicemia	2
Poliomyelitis		Scabies	8
Scarlet fever	209	Scarlet fever Tetanus—Terre Hill	618
Septic sore throat		Tuberculosis	98
Emallpox		Typhoid fever	36
Tetanus		Whooping cough	344
Typhoid fever Vincent's angina	-	RHODE ISLAND	
Whooping cough		•	
•	- 201	Anthrax—Providence	1
NORTH CAROLINA		Chicken pox	1
NORTH CAROLINA Chicken pox	_ 109	Chicken poxDiphtheria	1 9
NORTH CAROLINA Chicken pox Diphtheria	_ 109 _ 16	Chieken pox	1 9
NORTH CAROLINA Chicken pox	_ 109 _ 16 _ 159	Chicken poxDiphtheria	1 9 24 2
NORTH CAROLINA Chicken pox Diphtheria German measics	109 16 159 427	Chicken pox	1 9 24 2 64 1
NORTH CAROLINA Chicken pox Diphtheria German measics Measles Scarlet fever. Septic sore throat	109 16 159 427 28	Chieken pox	1 9 24 2 64 1
NORTH CAROLINA Chicken pox Diphtheria German measics Measics Scarlet fever Eptic sore throat Smallpox	109 16 159 427 28 4	Chieken pox	1 9 24 2 64 1 3
NORTH CAROLINA Chicken pox Diphtheria German measics Moasles Scarlet fever. Septic sore throat Smallpox Typhoid fever	109 16 159 427 28 4 43	Chieken pox	1 9 24 2 64 1
NORTH CAROLINA Chicken pox Diphtheria German measics Measics Scarlet fever Eptic sore threat Smallpox Typhoid fever Whooping cough	109 16 159 427 28 4 43	Chieken pox	1 9 24 2 64 1 3
NORTH CAROLINA Chicken pox. Diphtheria. German measics. Measies. Scarlet fever. Septic sore threat. Smallpox. Typhoid fever. Whooping cough.	109 16 159 427 28 4 43 13 303	Chieken pox	1 9 24 2 64 1 3 10 10
NORTH CAROLINA Chicken pox Diphtheria German measics Measics Scarlet fever Eptic sore threat Smallpox Typhoid fever Whooping cough	109 16 159 427 28 4 43 13 303	Chieken pox Diphtheria German measles Influenza Measles Ophthalmia neonatorum Scarlet fever Tuherculosis Whooping cough SOUTH DAKOTA Cerebrospinal meningitis Chieken pox	1 9 24 2 64 1 3 10 10
NORTH CAROLINA Chicken pox. Diphtheria. German measics. Measies. Scarlet fever. Septic sore threat. Smallpox. Typhoid fever. Whooping cough.	- 109 - 16 - 159 - 427 - 28 - 4 - 43 - 13 - 303	Chieken pox Diphtheria German measles Influenza Measles Ophthalmia neonatorum Scarlet fover Tuherculosis Whooping cough SOUTH DAKOTA Cerebrospinal meningitis Chieken pox Measles	1 9 24 2 64 1 3 10 10
NORTH CAROLINA Chicken pox	- 109 - 16 - 159 - 427 - 28 - 4 - 43 - 13 - 303	Chieken pox Diphtheria German measles Influenza Measles Ophthalmia neonatorum Scarlet fover Tuherculosis Whooping cough  SOUTH DAKOTA Cerebrospinal meningitis Chicken pox Measles Mumps	1 9 24 2 64 1 3 10 10
NORTH CAROLINA Chicken pox	- 109 - 16 - 159 - 427 - 28 - 4 - 43 - 303	Chieken pox Diphtheria German measles Influenza Measles Ophthalmia neonatorum Scarlet fover Tuherculosis Whooping cough SOUTH DAKOTA Cerebrospinal meningitis Chieken pox Measles	1 9 24 2 64 1 3 10 10
NORTH CAROLINA Chicken pox. Diphtheria German measics. Measles Scarlet fever. Septic sore throat Smallpox. Typhoid fever. Whooping cough ONLAHOMA (Exclusive of Oklahoma City and Tuls: Chicken pox. Diphtheria Influenza. Malaria	- 109 - 16 - 159 - 427 - 28 - 43 - 13 - 303	Chieken pox Diphtheria German measles Influenza Measles Ophthalmia neonatorum Scarlet fever Tuherculosis Whooping cough  SOUTH DAKOTA Cerebrospinal meningitis Chicken pox Measles Mumps Pneumonia	1 9 24 2 64 1 3 10 10
NORTH CAROLINA Chicken pox Diphtheria German measics Measies Scarlet fever Septic sore throat Smallpox Typhoid fever Whooping cough ONLAHOMA (Exclusive of Oklahoma City and Tulse Chicken pox Diphtheria Influenza Malaria Measies	- 109 - 16 - 159 - 427 - 28 - 43 - 13 - 303 - 303 - 59 - 40 - 46 - 158	Chieken pox Diphtheria German measles Influenza Measles Ophthalmia neonatorum Scarlet fever Tuherculosis Whooping cough  SOUTH DAKOTA Cerebrospinal meningitis Chicken pox Measles Mumps Pneumonia Rocky Mounts in spotted fever	1 9 24 2 64 1 3 10 10 10 10 8 1 2 68
NORTH CAROLINA Chicken pox Diphtheria German measics Measies Scarlet fever Eeptic sore threat Smallpox Typhoid fever Whooping cough ONLAHOMA (Exclusive of Oklahoma City and Tuls: Chicken pox Diphtheria Influenza Malaria Measies Mumps	- 109 - 16 - 159 - 427 - 28 - 43 - 13 - 303 - 303 - 40 - 46 - 46 - 168 - 10	Chieken pox Diphtheria German measles Influenza Measles Ophthelmia neonatorum Scarlet fever Tuherculosis Whooping cough  SOUTH DAKOTA  Cerebrospinal meningitis Chicken pox Measles Mumps Pneumonia Rocky Mounta in spoited fever Scarlet fever Smallpox Tuberculosis	1 9 24 2 64 1 3 10 10 10 1 3 104 8 1 2 68 8 1 1
NORTH CAROLINA Chicken pox Diphtheria German measics Measies Scarlet fever Septic sore throat Smallpox Typhoid fever Whooping cough ONLAHOMA (Exclusive of Oklahoma City and Tulse Chicken pox Diphtheria Influenza Malaria Measies	- 109 - 16 - 159 - 428 - 4 - 43 - 13 - 303 - 59 - 40 - 46 - 158 - 10 - 24	Chieken pox Diphtheria German measles Influenza Measles Ophthalmia neonatorum Scarlet fever Tuherculosis Whooping cough  SOUTH DAKOTA  Cerebrospinal meningitis Chicken pox Measles Mumps Pneumonia Rocky Mounta in spotted fever Scarlet fever Smallpox Tuberculosis Typhoid fever	1 9 24 2 64 1 3 10 10 10 13 104 8 1 2 68 8 1 1 1
NORTH CAROLINA Chicken pox	- 109 - 16 - 159 - 427 - 28 - 4 - 43 - 13 - 303 - 59 - 40 - 46 - 168 - 10 - 24 - 30	Chieken pox Diphtheria German measles Influenza Measles Ophthelmia neonatorum Scarlet fever Tuherculosis Whooping cough  SOUTH DAKOTA  Cerebrospinal meningitis Chicken pox Measles Mumps Pneumonia Rocky Mounta in spoited fever Scarlet fever Smallpox Tuberculosis	1 9 24 2 64 1 3 10 10 10 13 104 8 1 2 68 8 1 1 1
NORTH CAROLINA Chicken pox	- 109 - 16 - 159 - 427 - 28 - 43 - 303 - 303 - 59 - 40 - 46 - 158 - 10 - 24 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30	Chieken pox Diphtheria German measles Influenza Measles Ophthalmia neonatorum Scarlet fever Tuherculosis Whooping cough  SOUTH DAKOTA Cerebrospinal meningitis Chicken pox Measles Mumps Pneumonia Rocky Mounta in spotted fever Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	1 9 24 2 64 1 3 10 10 10 13 104 8 1 2 68 8 1 1 20
NORTH CAROLINA Chicken pox	- 109 - 16 - 159 - 428 - 4 - 43 - 13 - 303 - 59 - 40 - 46 - 158 - 158 - 24 - 30 - 24 - 30 - 21	Chieken pox Diphtheria German measles Influenza Measles Ophthalmia neonatorum Scarlet fover Tuherculosis Whooping cough  SOUTH DAKOTA  Cerebrospinal meningitis Chicken pox Measles Mumps Pneumonia Rocky Mounta in spotted fever Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  TENNESSEE Chicken pox	1 9 24 2 2 64 1 3 10 10 10 10 1 3 104 8 1 2 68 8 1 1 20 18
NORTH CAROLINA Chicken pox	- 109 - 16 - 159 - 428 - 4 - 43 - 13 - 303 - 59 - 40 - 46 - 158 - 158 - 24 - 30 - 24 - 30 - 21	Chieken pox Diphtheria German measles Influenza Measles Ophthalmia neonatorum Scarlet fover Tuherculosis Whooping cough  SOUTH DAKOTA Cerebrospinal meningitis Chieken pox Measles Mumps Pneumonia Rocky Mounts in spotted fever Scarlet fever Smallpox Tuherculosis Typhoid fever Whooping cough	1 9 24 2 64 1 3 100 10 10 13 104 8 1 2 68 8 1 1 20 18 5
NORTH CAROLINA Chicken pox	- 109 - 16 - 159 - 428 - 4 - 43 - 13 - 303 - 59 - 40 - 46 - 158 - 158 - 24 - 30 - 24 - 30 - 21	Chieken pox Diphtheria German measles Influenza Measles Ophthalmia neonatorum Scarlet fever Tuherculosis Whooping cough  SOUTH DAKOTA  Cerebrospinal meningitis Chicken pox Measles Mumps Pneumonia Rocky Mount in spotted fever Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  TENNESSEE Chicken pox Diphtheria Dysentery	1 9 24 2 64 1 3 10 10 10 10 10 8 8 1 2 68 8 8 1 1 20 18 5 1
NORTH CAROLINA Chicken pox	- 109 - 16 - 159 - 427 - 28 - 43 - 303 - 303 - 40 - 46 - 168 - 10 - 24 - 30 - 30 - 31 - 11 - 21 - 40	Chieken pox Diphtheria German measles Influenza Measles Ophthalmia neonatorum Scarlet fever Tuherculosis Whooping cough  SOUTH DAKOTA Cerebrospinal meningitis Chicken pox Measles Mumps Pneumonia Rocky Mounta in spotted fever Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  TENNESSEE Chicken pox Diphtheria Dysentery Influenza	1 9 24 2 64 1 3 10 10 10 13 104 8 1 2 68 8 1 1 20 18 5 1 25
NORTH CAROLINA Chicken pox	- 109 - 16 - 159 - 428 - 4 - 43 - 13 - 303 - 59 - 40 - 46 - 158 - 10 - 24 - 30 - 21 - 40 - 46 - 158 - 10 - 24 - 30 - 30 - 30 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 -	Chieken pox Diphtheria German measles Influenza Measles Ophthalmia neonatorum Scarlet fever Tuherculosis Whooping cough SOUTH DAKOTA Cerebrospinal meningitis Chicken pox Measles Munps Pneumonia Rocky Mounta in spotted fever Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  TENNESSEE Chicken pox Diphtheria Dysentery Influenza Malaria	1 9 24 2 2 64 1 3 10 10 10 10 13 104 8 1 1 2 68 8 1 1 20 18 5 1 1 25 12 5 12
NORTH CAROLINA Chicken pox	- 109 - 16 - 159 - 428 - 43 - 13 - 303 - 40 - 46 - 168 - 10 - 24 - 23 - 11 - 20 - 23 - 11 - 24 - 40 - 40 - 46 - 158 - 10 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40	Chieken pox Diphtheria German measles Influenza Measles Ophthalmia neonatorum Scarlet fever Tuherculosis Whooping cough  SOUTH DAKOTA Cerebrospinal meningitis Chicken pox Measles Mumps Pneumonia Rocky Mounta in spotted fever Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  TENNESSEE Chicken pox Diphtheria Dysentery Influenza	1 9 24 2 64 1 3 10 10 10 10 10 1 3 104 8 1 2 68 8 1 1 20 15 5 1 1 25 25 176
NORTH CAROLINA Chicken pox Diphtheria German measics Measles Scarlet fever Septic sore throat Smallpox Typhoid fever Whooping cough ONLAHOMA (Exclusive of Oklahoma City and Tuls: Chicken pox Diphtheria Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Typhoid fever Whooping cough OREGON Cerebrospinal meningitis Chicken pox	- 109 - 16 - 159 - 428 - 43 - 13 - 303 - 40 - 46 - 168 - 10 - 24 - 23 - 11 - 20 - 23 - 11 - 24 - 40 - 40 - 46 - 158 - 10 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40	Chicken pox Diphtheria German measles Influenza Measles Ophthelmia neonatorum Scarlet fever Tuherculosis Whooping cough  SOUTH DAKOTA  Cerebrospinal meningitis Chicken pox Measles Mumps Pneumonia Rocky Mounta in spotted fever Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  TENNESSEE Chicken pox Diphtheria Dysentery Influenza Malaria Measles	1 9 24 2 64 1 3 10 10 10 10 10 1 3 104 8 1 2 68 8 1 1 20 15 5 1 1 25 25 176

TENNESSEE-continued		WASHINGTON—CONTINUED	_
	Cases		Cases
Pellagra		Chicken pox	
Pneumonia		Diphtheria	
Poliomyelitis-Lake County		German measis	
Scarlet fever	12	Moasles.	65
Smallpox		Mumps.	38
Telanus		Scarlot fever	51
Tuherculosis		Smallpox	
Typhoid fever		Tuberculosis	67
Whooping cough		Typhoid fever	
11 mobine Anders and a series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series		Whooping cough	
TEXAS	38		
Chicken pox		WISCONSIN	
Diphtheria		Milwaukee:	
Dysentery		Chicken pox	. 90
Influenza		Diphtheria	
Measles		Digitalication	, 10 . 3
Mumps		German measles	
Pollagra	. 4	Influenza	
Pneumonia	. 10	Measles	
Scarlet fever	. 13	Mumps	
Smallpox	. 63	Pneumonia	
Tetanus	. 1	Scarlet fever	
Tuberculosis		Tuberculosis	
Typhoid fever		Whooping cough	. 31
Typhus fover	-	Scattering:	
Whooping cough		Cerebrespinal meningitis	1
44 modure construction	. 00	Chicken por	72
UTAH		Diphtheria	
Chicken pox	31	German measles	
Diphtheria		Influenza	
German measles	. 34	Measles	
Measles	. 51	Mumps	
Mumps		Pneumonia	
Pneumonia	-	Scarlet fever	
Scarlet fever		Tuberculosis	
Smallpox		Typhoid fever	
Whooping cough			
	. 101	Whooping cough	103
VERMONT		myorma	
Chicken pox		WYOMING	
Diphtheria	. 2	Chieken pov.	. 55
Measles.	. 113	Diphtheria	
Mumps	. 13	German measles	
Poliomyelitis	. 1	Influenza	
Scarlet fever	. 8	Measles	
Whooping cough		Mumps	
		Rocky Muntain spotted fever:	
VIRGINIA		Campbell County	. 4
Smallpor	. 5	Carbon County	. 2
WASHINGTON		Johnson County	
Cerebrospinal meningitis:		Natron a County	
Aberdoen		Sheridan ('ounty	
Hoquiam.	. 3	Washakie County	
Lewis County		Scalet fever	
Spokane	. 1	Whooping cough	. 4
Report for W	eek E	nded May 29, 1926	
NORTH DAROTA		NORTH DAKOTA—continued	
	Cases		Casos
Cerebrospinal meningitis		Pneumonia	
Chicken pox.		Scarlet fever	
Diohtheria	_ 4	Smallpox	
German messles	_ 18	Tuberculosis.	, 8
Montes + /	. 20	Typhoid fever	, 1
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	. 21	Whooping cough.	

## SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Cere- bro- spinal menin- gıtis	Diph- therm	Influ- enza	Ma- lana	Mea- sles	Pella- gra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
April, 1926 California Colorado Florida Idaho Montana Oregon South Dakota Virginia	15 0 1 9 2 10 0 6	381 83 107 14 8 88 22 72	124 61 57 22 47 219 34 5,087	3 17 0 6	1, 148 211 239 150 201 332 249 3, 786	6 5 0	10 1 1 0 0 0 0 2	474 145 35 74 175 225 518 342	337 4 407 51 28 99 29 61	122 8 46 19 0 11 6 20

# PLAGUE-ERADICATIVE MEASURES IN LOS ANGELES, CALIF.

The following items were taken from the reports of plague-eradicative measures from Los Angeles, Calif .:

Week ended May 29, 1926:

Number of rats trapped	412
Number of rats found to be plague infected	0
Number of squirrels examined	826
Number of squirrels found to be plague infected	0
Number of mice trapped	274
Number of mice found to be plague infected	0
Date of discovery of last plague-infected rodent, Nov. 6, 1925.	

Date of last human case, Jan. 15, 1925.

# GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended May 22, 1926, 36 States reported 1,041 cases of diphtheria. For the week ended May 23, 1925, the same States reported 1,313 cases of this disease. One hundred cities, situated in all parts of the country and having an aggregate population of more than 30,000,000, reported 685 cases of diphtheria for the week ended May 22, 1926. Last year for the corresponding week they reported 845 cases. The estimated expectancy for these cities was 879 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-four States reported 16,671 cases of measles for the week ended May 22, 1926, and 5,988 cases of this disease for the week ended May 23, 1925. One hundred cities reported 8,301 cases of measles for the week this year, and 3,304 cases last year.

Poliomyelitis.—The health officers of 36 States reported 10 cases of poliomyelitis for the week ended May 22, 1926. The same States reported 18 cases for the week ended May 23, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-six States—this year, 3,208 cases; last year, 3,112 cases; June 11, 1926 1188

100 cities—this year, 1, 792 cases; last year, 1,673 cases; estimated expectancy, 1,040 cases.

Smallpox.—For the week ended May 22, 1926, 36 States reported 602 cases of smallpox. Last year for the corresponding week they reported 682 cases. One hundred cities reported smallpox for the week as follows: 1926, 108 cases; 1925, 335 cases; estimated expectancy, 129 cases. Three deaths from smallpox were reported by these cities for the week this year—1 at Chicago, Ill., and 2 at Los Angeles, Calif.

Typhoid fever.—Two hundred and thirty-two cases of typhoid fever were reported for the week ended May 22, 1926, by 35 States. For the corresponding week of 1925, the same States reported 365 cases of this disease. One hundred cities reported 62 cases of typhoid fever for the week this year and 106 cases for the corresponding week last year. The estimated expectancy for these cities was 61 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 94 cities, with a population of more than 29,300,000 as follows: 1926, 875 deaths; 1925, 750.

# City reports for week ended May 22, 1926

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during non-epidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

		GL: 1	Dipht	heria	Influ	lenza	74		Pneu-	
Division, State, and city	Population July I, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Men- sles, cases re- ported	Mumps, cases re- ported	monia, deaths ro- ported	
NEW ENGLAND										
Maine:										
Portland.	75, 333	3	1	0	0	0	119	5	3	
New Hampshire:										
Concord.	22, 546	0	0	0	0	0	0	0	4	
Vermont: Barie	10, 008	0	0				_			
Burlington	24, 089	6	1	0	0	0	0	à		
Massachusetts:	21,000		•	U				u		
Boston.	779, 620	27	52	12	4	3	128	57	24	
Fall River	128, 993	0	3	6	Ō	Ŏ	Õ	"i	3	
Springfield	142, 065	3 '	3	1	0	0	29	4 2	À	
Worcester	190, 757	7	4	2	0	0	5	2	6	
Rhode Island.										
Pawtucket	69, 760	0	1	0	0	0	14	o l	2	
Providence	207, 918	2	9	2	0	0	35	3	4	
Bridgeport	(1)	o	5	₩ .		١, ١				
Hartford	160, 197	ņ	6	7 2	2		.3	Õ	Z	
New Haven	178, 927	21	3	2	0	1 0	13 109	0	2 6 2	
ATOM EXEMPERATE !	410,041 }	21	3 '		U		109	U	2	

¹ No estimate made.

City reports for week ended May 22, 1926-Continued

			Diph	theria	Influ	ienza			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
MIDDLE ATLANTIC					,				
New York: Buffalo	538, 016 5, 873, 356 316, 786 182, 003	17 142 9 8	10 262 7 6	5 165 16 0	0 33 2 0	1 14 2 1	28 930 92 294	75 0 15	21 217 10 3
New Jersey: Camden Newark Trenton Pennsylvania:	128, 642 452, 513 132, 020	2 48 4	4 15 3	3 10 1	1 4 1	1 1 1	48 163 74	0 11 4	3 14 2
Philadelphia Pittsburgh Reading	1, 979, 364 631, 563 112, 707	86 17 7	62 19 3	72 5 0		5 6 0	432 181 34	6 0 1	53 23 1
EAST NORTH CENTRAL									
Ohio: Cincinnati Cleveland Columbus Toledo Indiana:	409, 333 936, 485 279, 836 287, 380	27 5 31	7 19 3 4	5 23 7 3	0 2 0 0	6 2 0 3	335 53 117 330	25 6 2 0	10 24 7 10
Fort Wayne Indianapolis South Bend. Terre Haute Illinois:	97, 846 358, 819 80, 091 71, 071	4 7 0 1	2 5 1 0	1 3 0 1	0 0 0	0 1 0 1	81 60 20 27	0 0 0	1 13 5 2
Chicago Peoria Springfield Michigan:	2, 995, 239 81, 564 63, 923	97 0 3	92 2 0	65 0 0	8 0 4	3 0 5	195 0 17	40 0 1	50 3 2
DetroitFlint Grand Rapids	1, 245, 824 130, 316 153, 698	30 7 3	40 4 3	44 1 0	3 0 0	5 0 0	91 152 46	10 0 0	45 8 2
Wisconsin: Kenosha Madison Milwankee Racine Superior	50, 891 46, 385 509, 192 67, 707 39, 671	5 3 83 3 0	1 11 11 0 0	3 2 19 1 0	0 6 0	0 0 4 0	206 282 294 9	0 1 45 6 0	2 2 23 0 1
WEST NORTH CENTRAL									
Minnesota:     Duluth     Minneapolis     St. Paul Iowa:	110, 502 425, 435 246, 001	3 58 31	1 15 17	0 14 13	0	0 0 1	92 133 323	0 0	10 7
Davenport Des Moines Sioux City Waterloo Missouri:	76,411	2 0 1 2	1 3 0 0	0 4 0 1	0		5 16 0 73	0	*******
Kansas City St. Joseph St. Louis North Dakota:	367, 481 78, 342 821, 543	3 15	5 1 42	0 43	0	0	19 883	0 5	7
Fargo Grand Forks	26, 403 14, 811	5	. 0	0	0	0	0	7	0
South Dakota: Aberdeen Sioux Falls Nebraska:	15, 036 30, 127	0	0	.0	1	1	. 14 9	0	ō
LincolnOmaha	60, 941 211, 768	12 15	1 2	1	0		86		. 4
Kansas; Topaka Wiehita	55, 411 88, 367	33	1	0			27	9	2 2

City reports for week ended May 22, 1926—Continued

			Diph	theria	Influ	lenza			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
SOUTH ATLANTIC									
Delaware Wilmington	122, 049	1	1	2	0	0	4	0	2
Baltimore	796, 296	48	20	12	5	4	51	160	38
Cumberland Frederick District of Columbia:	33, 741 12, 035	0	0	0	0	0	23 8	0 2	. 0
Washington Virginia:	497, 906	28	10	12	1	0	353	0	9
Lynchburg Norfolk	30, 395	3 36	0	2 0	0	0	54 27	0 2 7	0 5
Richmond Roanoke West Virginia:	196, 403 58, 208	0	1	1 1	0	0	58 49	7	5 4 2
Charleston Huntington	49, 019 63, 485	1	0	0	2	0	23	0	1 0
Wheeling North Carolina:	56, 208	.7	0	1	0	Ō	158	0	1
Raleigh Wilmington Winston-Salem	30, 371 37, 061 69, 031	1 13 0	0 0	0 0 1	0	0	1 2	0	0 2 1
South Carolina:	73, 125	1	0	0	11	0	18	0 2	2
Columbia Greenville	41, 225 27, 311	3 7 0	0	0	0	0	0	0	0
Georgia: Atlanta Brunswick	(1)	7 3	1 0	5 0	2	1 0	47 1	1 0	8 0
Florida:	93, 134	2	ŏ	1	0	0	Ô	0	1
Miami Tampa	69, 751 91, 743	1	0	6 0	0	0	6 5	G	0
EAST SOUTH CENTRAL									
Kentucky; Covington	58, 309	1	1	1	0	o	28	0	5
Louisville Tennessee: Memphis	305, 935 174, 533	1	3 2	1 4	0	0	68	0	10
Nashville	136, 220	15 0	ő	õ	Ö	3	318 21	5 1	7
Birmingham Mobile	205, 670 65, 955 46, 481	7 3	1 0	1 0	3 1	3 1	127 0	1 0	7 0 0
Montgomery	46, 481	3	0	0	0.	0	16	6	0
Arkausas:									
Fort Smith Little Rock Louisiana:	31, 643 74, 216	3 8	0	0	0	ō	2 24	0	ō
New Orleans Shrevepart	414, 493 57, 857	· 6	6	3	3 0	3 0	2 1	0 14	7 4
Oklahoma City	(1)	0	1	0	3	0	4	0	2
Texas: Dallas Galveston	194, 450	24	3	1 1	1	1	2	0	3
Houston San Antonio	194, 430 48, 375 161, 954 198, 069	0 3 1	2	4 2	0	0 0 1	0 1 1	0 1 0	0 1 4
MOUNTAIN		_		-	v	•			*
Montana: Billings	17,971	o	0	0	0	0	o	0	1
Great Falls	29, 883 12, 037	0 7 0	1 0	000	0	0	58	1 0	0 0 1
Missoula Idabo; Boise	12,668 23,042	1	0		0	0	1	0	
No estimate made.	: 40,042 )	· U	11	0	0 1	0 1	0 [	0	و

# City reports for week ended May 22, 1926—Continued

1			1	r	Diph	heri	a		Influ	enza			
Division, State, a	nd	opulation July I, 1925, estimated	case	x, Cas	ti- ted ect-	Ca ro por	-	r	ises e- ted	Deaths re- ported	Mea- sies, cuses re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
MOUNTAIN-contin	ued												
Colorado Denver Pueblo		280, 911 43, 787		14	10 1		9		₀ -	0	38 25	1 0	1
New Mexico: Albuquerque Arizona:		21,000	1	1	1		2		0	0	1	4	2
Phoenix Utah:		38, 669	)	0	0		0		0	0	-1	0	0
Salt Lake City. Nevada:		130, 948	3		3		4		0	0	30		5
Reno		12,665	i	0	0		0		0	0	`0	0	0
Washington: SeattleSpokaneTacoma		( ¹ ) 108, 897 104, 458	7 ) ]	15 15 8	5 2 1		4 1 3		0	0	39 0 8	28; 0 0,	i
Oregon: Portland		282, 383	3 3	25	4		3		1	0	49	7	3
California: Los Angeles Sacramento San Francisco		(1) 72, 260		81 6 83	33 2 19		37		4 0 0	1 0	14 0	. 14 2 21	9
San Francisco.		557, 530	<u>'</u>	13	19		13		U	0	196	21	•
	Scarle	t fever	s	mallpo	x		Tub	er-	3	yphold	fover	Whoop-	
Division, State, and city	Cases esti- mated expect ancy	Cases	Cases, esti- mated expect- ancy	Cases re- ported	Des re por	) <b>-</b>	cul sis deat re- port	hs	Case esti- mate expec ancy	d re- t- porte	re-	re-	Deaths, all causes
NEW ENGLAND										-		-	ļ. ———
Maine: Portland	1	2	0	0		0		2	,	0 . 0		8	17
New Hampshire: Concord Vermont:	1	1	. 0	0		0		2	·	0		0.	10
Barre Burlington Mcssachusetts:	0	0 2	0	0		0		3 0				0	8
Boston Fall River	51 3	68 3 4	0	0		0	:	24		2 1		5	245 26
Springfield Worcester Rhode Island:	8	5	0	0		0		3	1		1	12	59
Pawtucker Providence Connecticut:	9	6	0	0		0		5		0 0	1	3.	18 73
Bridgeport Hartiord New Haven	6 4 5	16 9 7	0	0 0 0		0		3 1			1 7 0	1	33 45 27
MIDDLE ATLANTIC		-											
New York Rochester Syracuse	18 240 14 11	16 277 10 2	0	0 0 0		0	1 ]	6 18 1	1	1 10 1 10 0 0		75	1,546 1,546 108 40
New Jersey: Camden Newark Trenton	18 2	5 41 5	0	0 0 0		0	:	3 10 5		1 0	1 (	) 26	35 111 40
Pennsylvania: Philadelphia Pittsburgh Reading	75 27	102 43	1 0 0	0		0		43 6 2		5 3		1	518 168 30

¹ Pulmonary tuberculosis only.

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City reports for week ended May 22, 1926—Continued

	Scarlet	fever	· · · · ·	Smallpo	×		Ту	phoid fe	over		
Division, State, and city	Cases, esti- mated expect- ancy	Cases rc- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Tuber- culo- sis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Whooping cough, cases reported	Deaths, all causes
EAST NORTH CEN-											
Ohio: Cincinnati Cleveland Columbus Toledo Indiana:	13 20 8 13	20 88 18 8	2 1 2 4	2 0 1 0	0 0 0	11 24 3 7	1 2 1 0	0 0 1 0	0 0 0 1	23 85 17 41	140 194 66 75
Fort Wayne Indianapolis South Bend Terre Haute Illinois:	3 11 4 3	9 17 2 3	3 9 2 1	1 19 0 0	0 0 0	0 7 1 0	0 0	0 2 0 0	0 1 0 0	0 44 12 3	14 114 18 18
Chicago Peoria Springfield	108 3	137 1 3	2 1 1	2 0 0	0 0	40 0 1	. 0	1 0 0	0 0 0	64 4 8	659 19 22
Michigan: Detroit Flint Grand Rapids	74 5 6	149 7 23	3 2 0	0 0 1	0	41 1 1	3 1 0	2 1 0	0 0 0	32 11 17	349 35 32
Wisconsin: Kenosha Madison Milwaukee Racine Superior	- 22 5	1 2 15 2 6	1 1 5 1 2	0 0 0	000000000000000000000000000000000000000	1 0 9 1	0 0 0	0 0 0 0	0 0 0 0	3 2 53 7 0	9 5 120 14 6
WEST NORTH CENTRAL	1				-						
Minnesota: Duluth Minneapolis St. Paul Iowa:	29 22	23 65 38	2 9 4	000	0	5	0 0 1	0 0	0 0	5 4 69	20 93 52
Davenport Des Moinès Sioux City Waterloo Missouri:	1 6 2 2	8 7 0	3	0 0 0 1			0 0 0	0 0 0		0 0 2 15	
Kansas City St. Joseph St. Louis North Dakota:	. 8 2 30	123		<u>0</u>	0	0 7	0 2	0 2	0	2 52	38 210
Fargo Grand Forks South Dakota:		3	- 1	0	0	0	0	0	0	14	1
Aberdeen Sioux Falls Nebreska Lincoln	1	5 5	1	0 0		0		0	0	0	3 17
Omaha Kansas: Topeka Wichita	2 2	71 9	0	0	0	0	0	0 0	0	9 12	28 15
SOUTH ATLANTIC											
Delaware: Wilmington Maryland: Baltimore	. 26	33	0	0	0	16	3	0	0	0 49	30 259
Cumberland Frederick District of Col.: Washington	19	39		0	C	0	Ö	0 0 2	0 0	52	10 3 152
Virginia: Lynchburg Norfolk Richmond	. 0	3000	0 0	0 1	0	3	1 0	0	0	1	10 53 16
Roanoke West Virginia: Charleston Huntington Wheeling	1 0 2	0 1 1	1	0 0 0 1	0	0	0	0 0	0	2 0	12 13

· City reports for week ended May 22, 1926—Continued

-	Scarle	t fever		Smallpo	) Z		Ту	phoid f	ever		
Division, State, and city	C'ases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Tuber- culo- sis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Whooping cough, cases reported	Deaths, all causes
SOUTH ATLANTIC— continued											
North Carolina: Raleigh Wilmington Winston-Salem South Carolina:	0 0 1	0 0 1	1 1 4	0 0 0	0 0	1 0 2	0 0	0 0 1	0 0 0	8 3 1	9 8 12
Charleston Columbia Greenville	0	0 1 0	0 1 0	3 0 0	0 0 0	0 0	0 1 0	6 0 0	0 0 0	5 1 3	33 4
Georgia: Atlanta Brunswick Savannah	4 0 1	2 0 0	5 1 0	1 2 2	0	3 1 1	0 0 1	3 0 0	2 0 0	5 0 0	81 4 26
Florida: Miami Tampa		1 0		0 3		1 0	1	2 2	0	6 3	36 36
EAST SOUTH CENTRAL											
Kentucky: Covington Louisville Tennessee:	1 5	2 7	0 1	0	0	5 7	1	0 2	0	0 7	23 85
Memphis Nashville	4 2	16 6	3 1	9 1	0 0	12 3	1	0	0	10 5	64 56
Alabama: Birmingham Mobile Montgomery	1 0 0	2 1 0	7 1 1	2 0 0	0 0 0	5 4 0	2 0 1	0 0 0	0 0 0	18 0 0	72 23 33
WEST SOUTH CENTRAL											
Arkansas: Fort Smith Little Rock	0	0 9	0	0		0	0	0	<del>-</del>	1 1	
Louisiana. New Orleans Shreveport	3	19 0	2 2	6 0	0	15 6	3 0	3 0	0	4 3	119 29
Oklahoma: Oklahoma City Texas:	1	0	5	0	0	2	1	0	0	0	23
Galveston Houston San Antonio	2 0 1 1	9 1 2 0	0 1 0	7 6 3 0	0 0 0	2 1 7 5	1 0 1 0	0 0 3	0 0 1 1	10 0 1 0	45 12 54 62
MOUNTAIN  Montana: Billings Great Falls Helena.	1 2 0	2 0 1	0 2 1	0	0	000	000	1 0 0	0	1 3 0	7 5 7
Missoula Idaho: Boise	0	0	1 1	0	0	0	0	0	0	0	7 6 6
Colorado: Denver Pueblo	11 1	10	1 0	0	0	7	. 0	0	0	42	59 8
New Mexico: Albuquerque Arizona:	0	4	0	0	0	4	0	0	0	11	17
Phoenix Utah: Salt Lake City_	1 2	3	0	0	0	8	0	0	0	0	22 36
Nevada: Reno	0	0	o	0	0	0	0	0	0	0	1
Washington: Seattle Spokane Tacoma	8 3 2	21 33 3	3 5 1	1 0 4	ō	1	1 0 0	1 1 0	<u>-</u>	3 18 7	25
Oregon: Portland California:	7	26	8	14	0	3	0	0	0	1	. 58
Los Angeles Sacramento San Francisco .	17 1 14	33 1 18	0 2	10 3 1	2 0 0	34 3 7	0 1	0 4 1	000	7 0 5	216 22 124

City reports for week ended May 22, 1926—Continued

	Cerebro menir	epinal epitis	Leth encep!	argic halitis	Pells	ıgra	Poliom tile	yelitis (1 2 paralys	nian- is)
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
NEW ENGLAND						,	-		
Massachusetts: BostonFall River	1 0	1 0	0	0	0	0	0	0	0
MIDDLE ATLANTIC				١.					
New York: Buffalo New York. Pennsylvania: Philadelphia	1 2 1	0 6	0 5	0 4	0	0	0 1	0 1	0 1
Pittsburgh	0	0	0	1	0	0	0	0	0
Illinois: Chicago Michigan: Detroit	0	0	1 0	0	0	0	0	0	0
Grand Rapids	Ô	ŏ	ŏ	i	0	Ō	Ū	0	Ō
SOUTH ATLANTIC	·			ľ					
Maryland: Baltimore District of Columbia:	0	0	1	2	0	0	1	0	0
Washington Virginia:	!	0	0	0	0	0	0	0	0
Richmond North Carolina: Raleigh	0	0	0	0	0	1	0	0	0
South Carolina: Charleston	. 0	0	0	0	5	3	0	0	0
Georgia: Atlanta	. 1	0	0	0	0	0	0	0	0
Florida: Tampa	1	0	0	0	1	1	0	0	0
EAST SOUTH CENTRAL		1							
Tennessee: Memphis	. 0	0	0	0	. 0	1	C	0	0
Alabama: Birmingham	. 0	0	1	0	0	2	0	0	0
WEST SOUTH CENTRAL									
Louisiana: New Orleans Shreveport Texas:	0	0	0	0	200	1	0	8	0
Dallas	- 0	0	0	0	0	1	0	0	0
MOUNTAIN 1									
PACIFIC PACIFIC									
Washington: Seattle	2		- 0		- 0		0	0	*****
Los Angeles Sacramento San Francisco	0 0		1 0	0	1	0	0 0 1	0	0

¹ Rocky Mountain spotted fever, 1 case and 1 death at Billings, Mont.

The following table gives the rates per 100,000 population for 108 cities for the five-week period ended May 22, 1926, compared with those for a like period ended May 23, 1925. The population

figures used in computing the rates are approximate estimates as of July 1, 1925 and 1926, respectively, authoritative figures for many of the cities not being available. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and more than 29,750,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, April 18 to May 22, 1926-Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925

## DIPHTHERIA CASE RATES

					Week	ended				
	Apr. 25, 1925	Apr. 24, 1926	May 2, 1925	May 1, 1926	May 9, 1925	May 8, 1926	May 16, 1925	May 15, 1926	May 23, 1925	May 22, 1926
103 cities	155	118	152	110	2 152	1114	4 158	5 122	148	6 119
New England Middle Atlantic Fast North Central West North Central South Atlantic East South Central Most South Central Mountain Pacific	217 106 181 102	73 162 87 178 68 26 47 82 146	122 212 102 195 98 37 66 111 196	83 114 97 200 68 73 56 118 154	105 211 106 269 98 11 62 102 2 117	106 125 89 195 75 62 60 146 10 165	149 237 8 102 205 81 32 53 148 10 132	87 135 96 5 228 77 52 82 182 175	122 202 101 243 83 37 40 129 157	7 79 138 117 5 167 71 36 47 127
		MEA	sles (	CASE I	RATES			5		
103 cities	620	1, 790	559	1,706	2 603	31,718	4 599	51,557	579	6 1, 440
New England Middle Atlantic East North Central Wost North Central South Atlantic East South Gentral West South Central Mountain Pacific	779 833 98 278	1, 666 1, 593 1, 457 4, 079 2, 538 3, 445 163 1, 074 504	968 731 706 76 288 184 26 518 155	1, 529 1, 417 1, 486 3, 988 2, 528 2, 885 159 865 669	949 793 830 109 227 315 31 176 291	1,714 1,429 1,454 94,458 1,942 3,248 125 883 10 690	1, 145 765 8 795 76 311 152 13 55 19 170	1, 198 1, 198 1, 371 4, 451 1, 933 3, 461 1, 55 1, 303 679	1,014 615 888 233 309 310 22 176 124	7 1, 087 1, 133 1, 372 5 3, 838 1, 669 2, 999 142 1, 384 693
	SC.	ARLET	FEVI	ER CAS	E RA	res				
103 cities	438	283	297	292	311	3 294	4 338	5 326	207	0 311
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	393 335 410 671 165 236 114 388 141	222 201 287 883 160 228 172 209 262	415 322 302 502 125 242 106 •324 119	281 221 289 867 218 171 146 218 205	400 318 341 599 100 242 84 268 2 144	222 217 310 933 177 187 176 137 10 197	345 330 368 705 156 209 70 342 10 187	312 249 356 3 953 222 202 155 246 259	338 264 388 539 138 226 44 314 155	7 289 256 341 8 813 195 176 172 173 294

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1925 and 1926, respectively.

2 Spokane, Wash, not included.

3 Grand Forks, N. Dak., and Tacoma, Wash., not included.

4 Superior, Wis., and Tacoma, Wash., not included.

5 Kanasa City, Mo., and Grand Forks, N. Dak., not included.

6 Concord, N. H., Kanasa City, Mo., and Grand Forks, N. Dak., not included.

7 Concord, N. H., not included.

8 Superior, Wis., not included.

9 Grand Forks, N. Dak., not included.

9 Grand Forks, N. Dak., not included.

Summary of weekly reports from cities, April 18 to May 22, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925—

## SMALLPOX CASE RATES

	Week ended											
	Apr. 25, 1925	Apr. 24, 1926	May 2, 1925	May 1, 1926	May 9, 1925	May 8, 1926	Мау 16, 1925	May 15, 1926	May 23, 1925	May 22, 1926		
103 cities.	60	31	48	26	2 45	³ 26	1 44	§ 26	58	6 19		
New England Middle Atlantic East North Central West North Central South Atlantic East South Central Most South Central Mountain Pacific	2 12 37 86 75 420 40 28 251	0 0 22 44 47 99 112 46 140	0 8 29 72 60 399 31 9	0 19 32 28 99 146 36 102	2 6 41 58 42 347 26 46 2 167	0 0 22 58 30 73 159 36	0 7 8 53 70 35 173 35 28 10 181	0 0 20 422 39 119 116 55 67	0 2 66 66 61 404 123 28 177	7 0 0 18 5 33 24 62 95 18 51		
	TY	PHOII	) FEV	er ca	SE RA	TES						
103 cities	16	8	17	9	2 13	38	4 13	8 8	18	6 11		
New England. Middle Atlantic. East North Central West North Central. South Atlantic. East South Central West South Central West South Central Mountain Pacific.	17 14 6 6 13 74 48 28 22	5 8 1 6 8 26 26 26 0 22	10 22 4 12 27 42 48 0 17	5 6 4 6 19 21 17 18 27	5 13 8 2 27 42 44 0 2 9	9 7 4 9 6 13 16 17 0	12 10 8 6 0 25 58 75 0	0 10 5 5 4 4 0 43 9	24 19 5 4 36 68 62 18 6	7 10 7 5 5 7 32 10 26 9		
	IN	FLUE	NZA D	EATH	RATE	S	·		<u> </u>			
96 cities	29	38	21	33	14	10 25	10 14	11 16	14	12 15		
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pneific	40 79 24	40 34 42 31 30 104 66 46 4	19 14 21 30 25 47 29 46 11	35 27 46 17 28 99 28 9	10 10 15 11 19 47 15 18	14 22 29 13 19 99 47 18	7 12 10 11 10 74 19 55 10 12	5 17 18 11 7 17 31 28 18	5 11 11 17 6 79 19 18 22	7 12 16 18 11 5 11 36 24 0		
	I	NEUM	AINO	DEAT	H RAT	ES						
96 cities	196	201	160	177	145	¹⁰ 164	10 123	11 150	123	12 140		
New England Middle & tlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	222 199 131 180 263 150 213	234 240 191 136 205 259 137 109 71	111 206 133 70 180 179 121 120 113	210 219 152 106 177 233 161 118 75	156 184 123 74 148 147 131 120 109	170 174 178 121 169 223 118 82 10 84	129 143 118 55 129 152 106 157	165 165 147 11 70 182 182 137 91	110 143 116 76 125 126 73 166 120	7 136 173 133 11 88 148 171 90 82 53		

Spokane, Wash., not included.
Grand Forkr, N. Dak., and Tacoma, Wash., not included.
Superior, Wis., and Tacoma, not included.
Kacasa City, Mo., and Grand Forks, N. Dak., not included.
Concord, N. H., Kansa. City, Mo., and Grand Forks, N. Dak., not included.
Concord, N. H., not included.
Superior, Wis., not included.
Grand Forks, N. Dak., not included.
Grand Forks, N. Dak., not included.
Kansas City, Mo., not included.
Concord, N. H., and Kansas City, Mo., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively

Group of cities	Number of cities reporting	Number of cities reporting	of cities cases	population reporting	Aggregate population of cities reporting deaths		
	cases	deaths	1925	1926	1925	1926	
Total	103	96	29, 944, 996	30, 473, 129	29, 251, 658	29, 764, 201	
New England Middle Atlantic East North Contral West North Central South Atlantic East South Atlantic West South Central West South Central Mountain Pacific	12 10 16 14 21 7 8 9	12 10 16 11 21 7 6 9 4	2, 176, 124 10, 346, 970 7, 481, 656 2, 594, 962 2, 716, 970 993, 103 1, 184, 057 563, 912 1, 888, 142	2, 206, 124 10, 476, 970 7, 655, 436 2, 634, 662 2, 776, 070 1, 004, 953 1, 212, 057 572, 773 1, 934, 084	2, 176, 124 10, 346, 970 7, 481, 650 2, 461, 380 2, 716, 070 993, 103 1, 078, 198 563, 912 1, 434, 245	2, 208, 124 10, 476, 970 7, 655, 436 2, 499, 036 2, 776, 070 1, 004, 953 1, 103, 695 572, 773 1, 469, 144	

# FOREIGN AND INSULAR

#### THE FAR EAST

Report for week ended May 15, 1926.—The following report for the week ended May 15, 1926, was transmitted by the Far Eastern Bureau of the Health Section of the League of Nations' Secretariat, located at Singapore, to the headquarters at Geneva.

		Plague Cholera		Small- pox				Plague Cholcra		Small- pox			
Maritime towns	e towns  Solve Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain Strain S	Cases	Deaths	Cases	Deaths	Cases	Deaths						
Egypt: Suez Iraq: Basra British India: Calcutta Bombay Madras Karachi Negapatam. Slam: Bangkol: French Indo-China: Saigon and Cholon Turane	0 0 0	0 0 0 0 0 0 0 0 0	0 0  324 15 0	0 0 45 0 1 0 1 173	0 8 19 32 4 17 2 1	0 6 12 12 0 7 1	Hongkong China: Shanghai Amoy. Sarawak: Kuching Japan: Osaka. Kwantung: Dairen Port Arthur Asiatic Russia: Vladivostok	0 5 0 0 0	0 0 3 0 0 0 0	0 0 0 0 0	0 0 0 0 0	2 2 2 1 3 5	2 2 0 0 0 0 1

Telegraphic reports from the following maritime towns indicated that no case of plague, cholera, or smallpox was reported during the week:

## ASIA

British India.—Chittagong, Cochin, Tuticorin, Vizagapatam.

Ceylon.-Colombo.

Federated Malay States .- Port Swettenham.

Straits Settlements .- Penang, Singapore.

Dutch East Indies.—Batavia, Surabaya, Samarang, Cheribon, Relawan Deli, Palembang, Sabang, Makassar, Menado, Banjermasin, Balik-Papan, Pontianak.

British North Borneo .- Sandakan.

Portuguese Timor .- Dilly.

Philippine Islands.—Manila, Iloilo, Jolo, Cebu, Zamboanga.

French Indo-China.—Haiphong.

Formosa.-Keelung.

Japan.—Nagasaki, Yokohama, Simonoseki, Moji, Kobe, Niigata, Tsuruga, Hakodate.

Korea.-Chemulpo, Fusan.

Manchuria.—Antung, Mukden, Changchun, Harbin.

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#### AUSTRALASIA AND OCEANIA

Australia.—Adelaide, Melbourne, Sydney, Brisbane, Rockhampton, Townsville, Port Darwin, Broome, Fremantle.

New Guinea .- Port Moresby.

New Zealand .- Auckland, Wellington, Christchurch, Invercargill, Dunedin.

New Caledonia.-Noumea.

Hawaii .- Honolulu.

#### AFRICA

Egypt.—Alexandria, Port Said.

Anglo-Egyptian Sudan .- Port Sudan.

Eritrea.-Massana.

French Somaliland .- Djibuti.

British Somahland.—Berbera.

Italian Somaliland .- Mogadiscio.

Kenya.--Mombasa.

Tanganyika.—Dar-es-Salaam.

Seychelles .- Victoria.

Mauritius.—Port Louis.

Portuguese East Africa.—Mozambique, Lorenço Marques.

Union of South Africa.—Durban, East London, Port Elizabeth, Cape Town.

Reports had not been received in time for distribution from-

British India.-Rangoon.

Dutch East Indies .- Padang, Tarakan.

Zanzibar.-Zanzibar.

Madagascar.-Tamatave, Majunga.

#### CUBA

Communicable diseases—Habana—March, 1926.—During March, 1926, communicable diseases were reported at Habana, Cuba, as follows:

Disease	New cases	Deaths	Re- main- ing under treat- ment Mar. 31, 1926	Disease	New cases	Deaths	Re- main- ing under treat- ment Mar. 31, 1926	
Cerebrospinal meningitis Chicken pox Diphtheria Leprosy	1 57 17 1	3	29 2 7	Malaria ¹ Moasles Scarlet fever Typhoid fever ¹	38 161 31 30	4 1 8	10 55 16 27	

¹ Many of these cases from the interior.

#### **ECUADOR**

Plague—Guayaquil—April 16-30, 1926-May 1-15, 1926.—Plague has been reported in Ecuador as follows: Guayaquil—April 16 to 30, 1926, cases, 2; deaths, 1; May 1 to 15, 1926, 1 case.

June 11, 1926 1200

Plague rats found.—During the same period, out of 10,291 rats taken from April 16 to 30, 51 rats were found plague infected and for the period May 1 to 15, out of 9,749 rats taken, 23 were found infected.

#### EGYPT

Plague—April 16-22, 1926—Summary.—During the week ended April 22, 1926, 6 cases of plague were reported in Egypt. Of these, the urban occurrence was as follows: Alexandria 1 case; Sucz, 3 cases. From January 1 to April 22, 1926, there were reported 16 cases as compared with 24 cases reported for the corresponding period of the year 1925.

### LATVIA

Communicable diseases—March, 1926.—During the month of March, 1926, communicable diseases were reported in the Republic of Latvia as follows:

Disease	Cases	Disease	Cases
Cerebrospinal meningitis Diphtheria Dyscatery Leprosy Measles Mumps Puerperal fever	1 51 3 2 331 136 7	Rabies Scarlet fever Trachoma Typhold fever Typhold fever Typhus fever Whooping cough	1 404 65 69 2 65

Population, Fobruary 10, 1925; 1,844,805.

### UNION OF SOUTH AFRICA

Plaque—April 11-17, 1926.—During the week ended April 17, 1926, 4 cases of plague with 3 deaths were reported in the Union of South Africa. Of these, 2 fatal cases occurred in Cradock District, Cape Province, and 2 cases with 1 death in Hoopstad District, Orange Free State. The occurrence was on farms and was in the native population.

Typhus fever—March, 1926.—During the month of March, 1926, 37 cases of typhus fever with 1 death were reported in the Union of South Africa. During the week ended April 17, 1926, the occurrence of a sporadic case of typhus fever was reported at Beaconsfield, Kimberley Location, Cape Province, and outbreaks of the disease were reported on farms in Molteno and Steynsburg districts, Cape Province.

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

### Reports Received During Week Ended June 11, 19261

### CHOLERA

Place	Date	Cases	Deaths	Remarks
French Settlements in India				Jan. 1-Mar. 6, 1926: Cases, 435; deaths, 349. Apr. 4-10, 1926: Cases, 4,441; deaths, 2,766.
	PLA	GUE	4	,
Ceylon: Colombo	Apr. 18-24	1	1	
Ecuador: Guayaquil DoEgypt.	Apr. 16-30 May 1-15	2 1	1	Rats taken, 10,291; infected, 51. Rats taken, 9,749; infected, 23. Apr. 16-22, 1926: Cases, 6. Jan.
AlexandriaSuez	Apr. 16-22do	1 3		1-Apr. 22, 1926, total 16 cases. Corresponding period, year 1925; cases, 24.
India Madras	Apr. 4-10	17	11	Apr. 4-10, 1926; Cases, 11,30 deaths, 9,364. Presidency.
Java: Surabaya Morocco:	Apr. 4-10	1	1	
TangierRussia			1	Dec. 1-31, 1926; Cases, 39.
Union of South Africa	Apr. 11-17		2	Apr. 11-17, 1926: Cases, 4; deaths 3. Natives, on farms.
Hoopstad District	do	2	1	1

¹ From medical officers of the Public Health Service, American consuls, and other sources.

#### SMALLPOX

			<del>,</del>	
Canada				Feb. 28-May 8, 1926: Cases, 252.
China:				
Manchuria—	1			
An-Shan	Apr. 25-May 1	2		South Manchuria Railway.
Changebun	do	28	1	Do.
Dairen	Apr. 5-11	3 2		
Fushum Harbin	Apr. 25-May 1 Apr. 23-May 6	16		1Do. , ,
Kal-yuan	Apr. 25-May 1	3		Do.
. Kungchuling	do May I	ĭ		Do.
Suping-kai	do	$\frac{1}{2}$		Do.
· Shanghai	Apr. 18-May 1	6	3	Cases, foreign; deaths, foreign
		•	-	and native.
Curacao		1		From Trinidad.
France	Feb. 1-28	39		,
French settlements in India	Jan. 3-Mar. 6	167	159	•
Gold Coast	Feb. 1-28	97	2	
Great Britain:	'		1	1 07 35 1 1000 FI
England and Wales				Apr. 25-May 1, 1926: Cases, 4,290.
Bradford	May 9-15	2		4,250.
Greece:	19103 0 101 1111111	_		*11
Saloniki	Apr. 6-12		1	
India				Apr. 4-10, 1926: Cases, 7,740;
				deaths, 1.770.
Karachi	Apr. 25-May 1	11	5	
Madras	do	8	[ 1]	
<u> Italy</u>				Feb. 21-Mar. 27, 1926: Cases, 12,
Java:	75. 00 1	9		
East Java and Madoera Martinique:	Mar. 28-Apr. 10	y		
Fort de France	Apr. 11-May 1	- 6		Alastrim.
Mexico:	Apr. H-May 1	. 0		TILL MEDILA
Aguascalientes	May 16-22		2	
Camargo	May 22	2		
Ciudad Juarez	May 18-24		1	,

### CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER. AND YELLOW FEVER—Continued

### Reports Received During Week Ended June 11, 1926—Continued

### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Mexico—Continued. Mexico City San Luis Potosic	May 2-15	1		Including municipalities in Federal District.
Poland Russia Switzerland				Feb. 14-Mar. 27, 1926: Cases, 16. Dec. 1-31, 1925: Cases, 348. Feb. 28-Apr. 3, 1926: Cases, 3.
Tripolitania Tunisia		l		Feb. 1-28, 1926: Cases, 9. Jan. 1-Mar. 31, 1926: Cases, 123.
	TYPHU	s fevi	ER	
Bulgaria				Feb. 1-28, 1926. Cases, 70; deaths,
C'hosen				Jan. 1-31, 1926. Cases, 139; deaths,
Czechoslovakia		1		Feb. 1-28, 1926: Cases, 35.
Port Said Esthonia	Apr. 16-22			Feb. 1-28, 1926: Cases, 8.
Ireland (Irish Free State): Tipperary County— Cashel District	May 9-15	1		
Cashel District				Feb. 21-Mar. 27, 1926: Cases, 28. Feb. 1-28, 1926: Cases, 18
Do Lithuania				Feb. 1-28, 1926: Cases, 46; deaths, 3.
Morocco. Poland				Feb. 1-28, 1926: Cases, 78. Mar. 27, 1926: Cases, 857; deaths, 69.
Rumania	1	1	}	Jan. 1-Feb. 28, 1926: Cases, 324; deaths, 21.
Runia Tunisia Tunis	7.5 V 10			Dec. 1-31, 4925: Cases, 3,273. Jan. 1-Mar. 31, 1926: Cases, 180.
Union of South Africa				March, 1926: Cases, 37; deaths, 1. Of these, 2 cases in Europeans.
Cape Province	1	1		Mar. 1-31, 1926: Cases, 32; deaths, l. Native.
Kimberley District	1	1		At Beaconsfield Location. Sporadic.
Molteno district Steynsburg district Natal	do			Do.
#100/er				tiva.

### Reports Received from December 26, 1925, to June 4, 1926 ! CHOLERA

tive. Mar. 1-31, 1926: 1 case. Native.

Place	Date	Cases	Deaths	Remarks
Chosen	October-Novem- ber, 1925. Dec. 1-31	12 880	5 712	
India. Calcutta	Nov. 1-28	101	89	Oct. 18, 1925, to Jan. 2, 1926: Cases, 21,316; deaths, 12,371. Jan. 3-Mar. 13, 1926: Cases, 31,105; deaths, 17,859. Mar.
Do Do	Dec. 6-26 Dec. 27-Jun. 16		54 41	21-Apr. 3, 1926: Cases, 7,074; deaths, 3,062.
Madras Do Rangoon	Jan. 24-Apr. 3 Nov. 15-Jan. 2 Jan. 3-Apr. 17 Nov. 8-Dec 3 Jan. 24-Apr. 17	464 174 146 4 23	417 70 90 4 20	

I From medical officers of the Public Hoalth Service, American consuls, and other sources.

### Reports Received from December 26, 1925, to June 4, 1926-Continued

### CHOLERA-Continued

Place	Date	Cases	Deaths	Remarks
ndo-China				September-December, 1925
Province-				Cases, 11; deaths; 7.
Annam	Sept. 1-30	2	2	Cabes, 11, acasas, 11
Cambodia	Dec. 1-31	2	ī	
Cochin China	Sept. 1-Dec. 31	6	4	
	Jan. 4-17	2	2	Including 100 square kilometer
Saigon	Jan. 2-11.	-	1 -	of surrounding country.
Do	May 20		1	Present.
	Sept. 1-Nov. 30	3		Fresent.
Tonkin				
apan	Aug. 30-Oct. 17	409		
Do	Oct. 25-Dec. 26	113		
Do	Jan. 17-30	5		
Philippine Islands:				
Manila	Nov. 9-Jan. 3	15	10	
Do	Jan. 4-Mar. 6		27	
Province			! !	
Bataan	Nov. 30-Dec. 26	29	25	
Do	Jan. 2-16	1	1 1	
Batangas	Jan. 24-Feb. 20	13	13	
Bohol	Jan. 23-30	i	1	
Bulacan	Oct. 18-Nov. 7	92	64	
Do	Nov. 23-Dec. 31	200	88	
Do	Jan. 2-30	6	6	
Laguna	Nov. 23-Dec. 26	18	14	
Do	Jan. 24-Feb. 6	5	16	
Leytc	Jan. 3-9	2	2	
Mindoro	Dec. 20-31	35	30	
Nueva Ecija	Nov. 30-Dec. 13	7	5	
	Nov. 1-7	i	i	
Pampanga	Nov. 23-Dec. 31	113	85	
Do		39	35	
Do	Jan. 2-Mar. 3			
Rizal	Sept. 27-Nov. 21	75	21	
Do	Dec. 21-30	14	11	
Do	Jan. 3-Feb. 20	89	30	
Romblon	Nov. 8-Dec. 13	27	14	
Russia	May-June	7		
Do	July-August	4		•
šiam:			j	٠,
Bangkok	Oct. 4-Nov. 14	108	68	''
Do	Nov. 22-Dec. 26	270	149	
Do	Dec. 27-Mar. 13	398	275	
Do	Mar. 21-27	90	52	
Do	Apr. 4-10	102	61	
On vessel:	1		1	
Steamship	Oct. 3	9		Arrived at Bangkok, Sian
		1		Cases in coolie passengers.
		1	1 '	

#### PLAGUE

			<del></del>	
Argentina				Jan. 24-30, 1926; 6 cases, occur-
Buenos Aires	Jan. 24-30	1		ring in interior Provinces of
Azores:		}	1	Salta and Santa Fe.
St. Michaels	Jan. 17-Apr. 3	9	4	
Belgium:				
Vilvorde	Dec. 1-8	1	1	
Brazil:		١ _		
Bahia	Nov. 8-Dec. 28	3	1	
D0	Dec. 27-Jan. 30	4	2	
Santos.	Dec. 8-21		2	
Sao Paulo	Reported Mar. 25.	4	1	
British East Africa:		l		
Kenya—			اما	
Kisumu	Nov. 22-Dec. 5	1 15	2 3	
Do	Jan. 31-Mar. 20	15		
Uganda Protectorate	Sept. 1-Dec. 31	468	426	
Do	Jan. 1-Feb. 28	159	143	
Canary Islands:	D 04	3	2	
La Laguna	Dec. 24	3	26	
Las Palmas	do	1 4		
Do	Jan. 7	1 1		
Santa Cruz de Tonerife	Dec. 18-27	3		`
Do	Dec. 28-Feb. 1	1 3	}	ŀ

### Reports Received from December 26, 1925, to June 4, 1926---Continued

### PLAGUE -Continued

Place	Date	Cases	Deaths	Remarks
Celebes:			<del></del>	
Makassar Ceylon:	Dec. 29-Feb. 2	12	12	Netherlands East Indies.
Colombo	Nov. 15-Dec. 5	. 3	3	1 plague rodent.
Do	Dec. 27-Jan. 16	2	2	
China: Do	Jan. 24-Mar. 6	. 5	5	Feb. 14-20, 1926: 2 plague rodents.
Nanking	Nov. 15-Apr. 24			Pievalent.
Ecuador:	Mar. 31	}	. 5	
Eloy Alfaro	Jan. 1-15	. 1		
Guayaquil Do	Nov. 1–Dec. 31 Jan. 1–Apr. 15	. 63	12 28	Rats taken, Nov. 1-Dec. 31, 1925, 49,370; rats found infected, 281. Rats taken, Jan. 1-Mar. 31, 1920, 73,490; rats found infected, 502.
Latacunga	Apr. 12 Jan. 1–15	<u>ī</u>		Present.
Recreo (country estate) Egypt	Jan. 1-15	1		Jan. 1-Dec. 9, 1925; Clases 138
Alexandria	Mar. 10-Apr. 16	3	1	Jan. 1-Dec. 9, 1925; Cases, 138. Jan 1-Apr. 8, 1926; Cases, 10.
Beni Suef Fayoum Province	Nov. 18. Dec. 3-9	1 1	1 1	
Gharbia Province	Mar. 9-30	1 5	3	
Mina Province	Mar. 4 Mar. 27-Apr. 19	1 4	1	
Greece:	Mai. 21-Apr. 19	*	1	
Athens	Nov. 1-30	18 25	4	Including Pirceus.
Do Herakleion	Jan. 1-Mar. 31 Feb. 4	1	4	On island of Crete.
Patras	Nov. 13-Dec. 12	4	ī	
Hawaii Territory	Feb. 2			1 plague-infected rodent found near Hamakua Mill Co.
Honokaa Kakuihaela Paauilo	Mar. 16 Mar. 19	1 1	i	1 death suspected plague.
			1	found in vicinity.
India		·	. 12	Oct. 18, 1925, Jan. 2, 1926: Cases,
Bombay Do	Dec. 6-12 Jan. 3-Apr. 10	7		Jan. 29, 1926: Plague-infected rat found in vicinity. Oct. 18, 1926, Jan. 2, 1926: Cases, 15,135; deaths, 10677. Jan. 3- Mar. 13, 1926: Cases 53,563; deaths, 41,553 Mar. 21-Apr. 2, 1926: Cases, 21,012; deaths, 16,627.
Calcutta	Dec. 6-12		1	10,027.
Karachi	Nov. 1-Dec. 19	22	3 10	
Do Madras Presidency	Oct. 25-Nov. 7	75	41	
Do	Nov. 15-21	35	22	
Do	Dec. 6-12. Nov. 1-Dec. 19. Feb. 21-Apr. 24 Oct. 25-Nov. 7 Nov. 15-21 Dec. 20-26. Jan. 3-Mar. 20 Mar. 27-Apr. 3. Apr. 11-17	108 1, 229	64 773	
170	Mar. 27-Apr. 3	38	22	
Do Rangoon	Apr. 11-17 Oct. 25-Dec. 26	25 23	18 15	
100	Dec. 27-Apr. 17	124	tiš	
Indo-China Province—				September December, 1925:
Cambodia	Sept. 1-Nov. 30	13	13	Cases, 28; deaths, 26.
Iraq: Cochin China	Sept. 1-Dec. 31	15	13	
Bagdad	Dec. 13-Jan. 2	7	3	
D0	Jan. 10-Apr. 17	111	61	
Java: Batavia	Oct. 21-Nov. 6	91	89	Province.
Do	Nov. 14-Jan. 1 Jan. 2-Mar. 12	315	297	110411100.
Do	Jan. 2-Mar. 12	483	468 19	
Cheribon	Sept. 27-Oct. 17		166	
Do	Mar. 19-Apr. 2. Sept. 27-Oct. 17. Nov. 15-Dec. 26. Jan. 3-Mar. 6.		198	
Djokjakarta	Oct. 20-Nov. 9		191	Epidemic in ! locality.
Kediri	Dec. 7.			Do.
Koeninigan Do	Peb. 7-Mar. 6		114 103	
Pekalongan	Dec. 7.— Dec. 27—Jan. 16.— Feb. 7-Mar. 6.— Sept. 27-Oot. 17 Nov. 8-Dec. 28.— Feb. 14-Mar. 6		42	
Do	Nov. 8-Dec. 28 Feb. 14-Mar. 6		252 123	
			A MANUAL I	

### Reports Received from December 26, 1925, to June 4, 1926—Continued

### PLAGUE-Continued

, Place	Date	Cases	Deaths	Remarks
Java-Continued.				
Probolinggo	Feb. 12			Epidemic. Port.
Rembang	Oct. 20			Do.
Surabaya	UCG 11-Dec. 20	1 5/1	59	1
D0	1 Dec. 27-Mar. 27	45	45	
Tegal	Sept. 27-Oct. 17 Nov. 8-Dec. 26	6	6	
Do	Fob 21 Mer 6		31	
Do Madagascar	Feb. 21-Mar. 6		11	Non 1 December 61 100m C
Province—				Nov 1-December 31, 1925; Cases, 632, deaths, 593 Jan 1-31, 1926. Cases, 611; deaths, 565. Mar. 1-15, 1926; Cases, 111; deaths, 79.
Ambositra	Dec. 16-31	9	7	1026 Coses 6114 deaths 505
Do	Jan. 1-15	2	2	Mor 1-15 1096; Cocce 111;
Fort Dauphin	Sept. 16-30	6	3	deaths 79
Do	Jan. 16-Mar. 15	4	4	400000, 101
Itasy	Sept. 16-Oct. 30 Nov. 16-Dec. 31	20	20	
Do	Nov. 16-Dec. 31	34	34	
Do	Jan. 1-15	29	29 29	
Do	Feb. 1-15	29	29	1
Moramanga	Sept. 16-Dec. 31	49	48	
Do	Jan. 1-Mar. 15	51	47	
Tananarive				Sept. 16-Nov. 30, 1925 Cases,
Town-	f			Sept. 16-Nov. 30, 1925 Cases, 388; deaths, 341. Dec. 16-31, 1925: Cases, 152; deaths, 143. Jan. 1-Mar. 15, 1926: Cases, 583; deaths, 486.
Tamatave (Port)	Sept. 16-Nov 30. Feb. 1-Mar. 15	42	11	1925: Cases, 152; deaths, 143.
Do	Feb. 1-Mar. 15	5	3	Jan. 1-Mar. 15, 1926: Cases,
Tananarive	Sept. 16-30	2	2	583; deaths, 486.
Do	Nov. 1-30	11	11	
Do Mauritius Island	Jan. 1-Mar. 15	40	40	
Moca	Sept. 20-Dec. 26	21	18 2	
Pamplemousses	Dec. 1-31 Oct. 1-Nov. 30	3	2 2	
Port Louis	Oct. 1-Dec. 31	13	9	
Rivière du Rompart	October	2	יש	
Nigeria	Aug. 1-Dec. 31	594	447	
Do	Jan. 1-31	24	21	
Persia:				
Teheran	Oct. 21-Nov. 21		12	
Peru Barranca and Supo				January-March, 1926; Cases, 383;
Barranca and Supo	Mar, 1-31	4	6	denths, 148.
				'
Caras Cascas	do		5	Present.
Ohiologo	<u>G</u> 0	15	5	
Chimheta	20	16	4 8	Constitution .
Cascas Chiclayo Chimbote Chincha Contumazá Cutorvo Huacho Lacranmarca Lima	30	14	5	Country estates.
Contumezá	40	12	٥	
Cutorvo	do			Present.
Huacho	Jan. 26	15		Port 60 miles north of Otllao.
Lacranmarca	Mar. 1-31	6		,
Lima	Jan 1-31	20		In hospital. Some cases in Prov-
	1	1		ince.
Mollendo	do			12 or 15 cases reported unoffi-
MollendoDo	Mar. 1-31			cially.
				Present.
Otuzeo. Pacosmayo. Salaverry San Pablo.		1 2		
Colorowy	do	5	1 2	
Son Poblo	30		_	Do
			5	150
Russia	May-lune	67	٠	
Do	July-November	217		
Senegal	September - Octo-	45	25	
-	her	1		
Siam	Aug. 23-Dec. 26 Dec. 27-Jan. 30	65	53	
DoBangkok	Dec. 27-Jan. 30	16	9	•
Bangkok	1 INOV. 13-28	3	3	
<u>D</u> o	Jan. 3-30	38	33	
Do	Feb. 7-20. Feb. 28-Apr. 10	11	5	
DoStraits Settlements:	rep. 28-Apr. 10	5	2	
Cingarore	Mary 1 Dec 5		_	
Singapore Do	Nov. 1-Dec. 5 Jan. 3-Mar. 20	8	8	'
Cywin :	1	3	•	-
Beirut	Nov. 11-20	1		•
Do	Jan. 21-31	i	J	l i
		-		

### Reports Received from December 26, 1925, to June 4, 1926-Continued

### PLAGUE-Continued

Place	Date	Cases	Deaths	Remarks
Cape Province	Apr. 4-10 Dec. 13-19. Dec. 6-12. Nov. 15-21. Feb. 21-27.  Nov. 29-Dec. 5. Dec. 6-12. Mar. 23-Apr. 3. Mar. 21-27.	1 1 1 1 1 1 1 3 8 8 1 11	1 1 1 1 1 1 4	Mar. 7-13, 1926; Cases, 3; European, 2. Mar. 21-27, 1926; Cases, 12; deaths, 4. Apr. 4-10, 1926; Cases, 3; deaths, 1. Native. European. Native. On farm.  Mar. 14-Apr. 10, 1926; Cases, 11; deaths, 5. In native. On farm.  European, in same family, pneumonic.  Native. On farm.  Jan. 29, 1926. Plague rat. At Buenaventura, Colombia. Rat was killed while jumping ashore from vessel.
	SMAI	LPOX		
Algeria:	New 91 Dec 91	177		
Algiers	Nov. 21-Dec. 31 Jan. 1-10	64		ŕ
Do	Jan. 21-Apr. 20	78		
Arabia: Aden	Nov. 29-Dec. 5	1		Imported.
Do	Jan. 10-Mar. 6	10	1	-
Argentina: Rosario	October		1	
Australia:				
Queensland— Brisbane	Dec. 9-15	1	<b>{</b>	
A goros:				
Fayal Island Bahamas	Feb. 2-Apr. 11			Present. Reported as alastrim.
Distribution	Feb. 23			have been imported.
Brazil:				have been imported.
Brazil; Manaos			12	have been imported.
Brazil: Manaos	Dec 1-31		6	have been imported.
Brazil: Manaos Do	Dec 1-31		12 6 10 72	have been imported.
Brazil:  Manaos.  Do.  Para  Rio de Janeiro.  Do.  Do.	Dec 1-31	35 134 65	6 10 72 26	have been imported.
Brazil: Manaos Do Para Rio. de Janeiro	Dec 1-31	35 134 65	6 10 72	have been imported.  June 27, 1925-Mar. 20, 1926
Brazil:  Manaos.  Do.  Para.  Rio de Janeiro.  Do.  Do.  Do.	Dec 1-31	35 134 65	6 10 72 26	have been imported.
Brazil:  Manaos. Do. Para. Rio.de Janeiro. Do. Do. British East Africa: Kenya—	Dec 1-31. Jan. 31-Feb. 20. Jan. 10-May 8. Nov. 1-28. Dec. 6-26. Dec. 27-Apr. 3.	35 134 65 279	6 10 72 26 224	have been imported.  June 27, 1925-Mar. 20, 1926
Brazil:  Manaos.  Do. Para. Rio. de Janeiro. Do. Do.  British East Africa: Kenya— Mombusa.	Dec 1-31 Jan. 31-Feb. 20 Jan. 10-May 8 Nov. 1-28 Dec. 6-26 Dec. 27-Apr. 3 Nov. 15-Dec. 19	35 134 65 279	6 10 72 26	have been imported.  June 27, 1925-Mar. 20, 1926
Brazil:  Manaos. Do. Para. Rio de Janeiro. Do. Do. British East Africa: Kenya- Mombusa. Do. Do.	Dec 1-31 Jan. 31-Feb. 20 Jan. 10-May 8 Nov. 1-28 Dec. 6-26 Dec. 27-Apr. 3 Nov. 15-Dec. 19	35 134 65 279	6 10 72 26 224	have been imported.  June 27, 1925-Mar. 20, 1920
Brazil:  Manaos	Dec 1-31 Jan 31-Feb. 20 Jan 10-May 8. Nov. 1-28 Dec. 6-26. Dec. 27-Apr. 3. Nov. 15-Dec. 19 Dec. 27-Mar. 20. Feb. 21-27.	35 134 05 279 14 2	6 10 72 26 224	have been imported.  June 27, 1925-Mar. 20, 1920
Brazil:  Manaos.  Do. Para. Rio de Janeiro. Do. Do. British East Africa: Kenya- Mombasa. Do. Tanganyika territory- Dar-es-Salaam. Uganda Protectorate.	Dec 1-31 Jan. 31-Feb. 20 Jan. 10-May 8 Nov. 1-28 Dec. 6-26 Dec. 27-Apr. 3  Nov. 15-Dec. 19 Dec. 27-Mar. 20 Feb. 21-27. Sept. 1-Oct. 31	35 134 65 279 14 2	6 10 72 26 224	have been imported.  June 27, 1925-Mar. 20, 1920
Brazil:  Manaos.  Do. Para. Rio de Janeiro. Do. Do. British East Africa: Kenya- Mombasa. Do. Tanganyika territory- Dar-es-Salaam Uganda Protectorate. Do. British South Africa:	Dec 1-31 Jan 31-Feb. 20 Jan 10-May 8. Nov. 1-28 Dec. 6-26. Dec. 27-Apr. 3. Nov. 15-Dec. 19 Dec. 27-Mar. 20. Feb. 21-27.	35 134 05 279 14 2	6 10 72 26 224	have been imported.  June 27, 1925-Mar. 20, 1920
Brazil:  Manaos.  Do. Para. Rio de Janeiro. Do. Do. British East Africa: Kenya- Mombasa Do. Tanganyika territory- Dar-es-Salaam Uganda Protectorate Do. British South Africa:	Dec 1-31. Jan 131-Feb. 20. Jan 10-May 8. Nov. 1-28. Dec. 6-26 Dec. 27-Apr. 3.  Nov. 15-Dec. 19. Dec. 27-Mar. 20. Feb. 21-27. Sept. 1-Oct. 31. Feb. 1-28. Jan, 5-11.	35 134 05 279 14 2 1 8 1	6 10 72 26 224	have been imported.  June 27, 1925-Mar. 20, 1920
Brazil:  Manaos.  Do. Para. Rio de Janeiro. Do. Do. British East Africa: Kenya- Mombusa. Do. Tanganyika territory- Dar-es-Salaum. Uganda Protectorate. Do. British South Africa: Northern Rhodesia. Southern Rhodesia.	Dec 1-31 Jan. 31-Feb. 20 Jan. 10-May 8 Nov. 1-28 Dec. 6-26 Dec. 27-Apr. 3  Nov. 15-Dec. 19 Dec. 27-Mar. 20 Feb. 21-27 Sept. 1-Oct. 31 Feb. 1-28	35 134 05 279 14 2	6 10 72 26 224	have been imported.  June 27, 1925-Mar. 20, 1926 Cases, 1,089; deaths, 580.
Brazil:  Manaos  Do  Para  Rio de Janeiro  Do  Do  British East Africa:  Kenya  Mombusa  Do  Tanganyika territory  Dares-Salaam  Uganda Protectorate  Do  Do	Dec 1-31. Jan 131-Feb. 20. Jan 10-May 8. Nov. 1-28. Dec. 6-26 Dec. 27-Apr. 3.  Nov. 15-Dec. 19. Dec. 27-Mar. 20. Feb. 21-27. Sept. 1-Oct. 31. Feb. 1-28. Jan, 5-11.	35 134 05 279 14 2 1 8 1	6 10 72 26 224	have been imported.  June 27, 1925-Mar. 20, 1926 Cases, 1,089; deaths, 580.
Brazil:  Manaos.  Do. Para. Rio.de Janeiro. Do. Do. British East Africa: Kenya- Mombusa. Do. Tanganyika territory- Dar-es-Salaum. Uganda Protectorate. Do. British South Africa: Northern Rhodesia. Southern Rhodesia.	Dec 1-31. Jan 131-Feb. 20. Jan 10-May 8. Nov. 1-28. Dec. 6-26 Dec. 27-Apr. 3.  Nov. 15-Dec. 19. Dec. 27-Mar. 20. Feb. 21-27. Sept. 1-Oct. 31. Feb. 1-28. Jan, 5-11.	35 134 05 279 14 2 1 8 1	6 10 72 26 224	have been imported.  June 27, 1925-Mar. 20, 1926 Cases, 1,089; deaths, 580.  Sept. 13-Jan. 2: In 7 Provinces 186 cases. Jan. 3-Feb. 27, 1926
Brazil:  Manaos Do. Para. Rio de Janeiro Do. Do. British East Africa: Konya— Mombusa. Do. Tanganyika territory— Dar-es-Salaam. Uganda Protectorate Do. British South Africa: Northern Rhodesia. Southern Rhodesia. Southern Rhodesia. Alberta	Dec 1-31. Jan 131-Feb. 20. Jan 10-May 8. Nov. 1-28. Dec. 6-26 Dec. 27-Apr. 3.  Nov. 15-Dec. 19. Dec. 27-Mar. 20. Feb. 21-27. Sept. 1-Oct. 31. Feb. 1-28. Jan. 5-11. Nov. 13-Dec. 23.	35 134 65 279 14 2 1 8 1	6 10 72 26 224	June 27, 1025-Mar. 20, 1926 Cases, 1,089; deaths, 580. Sept. 13-Jan. 2: In 7 Provinces 186 cases. Jan. 3-Feb. 27, 1926 Cases. 277-
Brazil:  Manaos.  Do.  Pars. Rio de Janeiro.  Do.  Do.  British East Africa:  Kenya—  Mombusa.  Do.  Tanganyika territory—  Dares-Saluam.  Uganda Protectorate.  Do.  British South Africa:  Northern Rhodesia.  Southern Rhodesia.  Canada.  Alberta.  Calgary.	Dec 1-31. Jan 131-Feb. 20. Jan 10-May 8. Nov. 1-28. Dec. 6-26 Dec. 27-Apr. 3.  Nov. 15-Dec. 19. Dec. 27-Mar. 20. Feb. 21-27. Sept. 1-Oct. 31. Feb. 1-28. Jan, 5-11.	35 134 05 279 14 2 1 8 1	6 10 72 26 224	June 27, 1925-Mar. 20, 1926 Cases, 1,089; deaths, 580.  Sept. 13-Jan. 2: In 7 Provinces 186 cuses. Jan. 3-Feb. 27, 1920 Cases, 277- Jan. 3-May 1, 1926: Cases, 70. From Drumheller, vicinity of
Brazil:  Manaos  Do.  Para Rio do Janeiro.  Do.  Do.  Do.  British East Africa: Kenya—  Mombusa.  Do.  Tanganyika territory— Dar-es-Salaam Uganda Protectorate Do.  British South Africa: Northern Rhodesia. Southern Rhodesia. Canada.  Alberta. Calgary. British Columbia—	Dec 1-31. Jan 131-Feb. 20. Jan 10-May 8. Nov. 1-28. Dec 6-26. Dec. 27-Apr. 3.  Nov. 15-Dec. 19. Dec. 27-Mar. 20. Feb. 21-27. Sept. 1-Oct. 31. Feb. 1-28. Jan. 5-11. Nov. 13-Dec. 23.	35 134 05 279 14 2 1 8 1 2 3	6 10 72 26 224	June 27, 1025-Mar. 20, 1926 Cases, 1,089; deaths, 580. Sept. 13-Jan. 2: In 7 Provinces 186 cases. Jan. 3-Feb. 27, 1926 Cases. 277-
Brazil:  Manaos.  Do.  Para.  Rio de Janeiro.  Do.  Do.  British East Africa:  Kenya—  Mombusa.  Do.  Tanganyika territory—  Dare-Saluam.  Uganda Protectorate.  Do.  British South Africa:  Northern Rhodesia.  Southern Rhodesia.  Canada.  Alberta.  Calgary.  British Columbia—  Vancouver	Dec 1-31 Jan. 31-Feb. 20 Jan. 10-May 8 Nov. 1-28 Dec. 6-26 Dec. 27-Apr. 3  Nov. 15-Dec. 19 Dec. 27-Mar. 20 Feb. 21-27. Sept. 1-Oct. 31 Feb. 1-28 Jan. 5-11 Nov. 13-Dec. 23  Dec. 13-19 Jan. 4-Mar. 27.	35 134 65 279 14 2 1 8 1 1	6 10 72 26 224	June 27, 1925-Mar. 20, 1926 Cases, 1,089; deaths, 580.  Sept. 13-Jan. 2: In 7 Provinces 186 cases. 271- Jan. 3-May 1, 1926: Cases, 70. From Drumheller, vicinity of
Brazil:  Manaos.  Do.  Para.  Rio.de Janeiro.  Do.  Do.  British East Africa:  Kenya—  Mombusa.  Do.  Tanganyika territory—  Dar-es-Salaam.  Uganda Protectorate.  Do.  British South Africa:  Northern Rhodesia.  Southern Rhodesia.  Cauada.  Alberta.  Calgary.  British Columbia—  Vancouver  Victoria.  Manitoba.	Dec 1-31 Jan. 31-Feb. 20 Jan. 10-May 8 Nov. 1-28 Dec. 6-26 Dec. 27-Apr. 3  Nov. 15-Dec. 19 Dec. 27-Mar. 20 Feb. 21-27 Sept. 1-Oct. 31 Feb. 1-28 Jan. 5-11 Nov. 13-Dec. 23  Dec. 13-19 Jan. 4-Mar. 27 Már. 21-27.	35 134 05 279 14 2 1 8 1 2 3	6 10 72 26 224	June 27, 1925-Mar. 20, 1926 Cases, 1,089; deaths, 580.  Sept. 13-Jan. 2: In 7 Provinces 186 cases. Jan. 3-Feb. 27, 1926 Cases, 277- Jan. 3-May 1, 1926: Cases, 70. From Drumheller, vicinity of Calgary.
Brazil:  Manaos  Do.  Para  Rio do Janeiro  Do.  Do.  Do.  British East Africa:  Kenya—  Mombusa  Do  Tanganyika territory—  Dar-es-Salaam  Uganda Protectorate  Do.  British South Africa:  Northern Rhodesia  Southern Rhodesia  Canada  Alberta  Calgary  British Columbia—  Vancouver  Victoria  Manitoba  Winniver	Dec 1-31. Jan. 31-Feb. 20. Jan. 10-May 8. Nov. 1-28. Dec. 6-26. Dec. 27-Apr. 3.  Nov. 15-Dec. 19. Dec. 27-Mar. 20. Feb. 21-27. Sept. 1-Oct. 31. Feb. 1-28. Jan. 5-11. Nov. 13-Dec. 23.  Dec. 13-19. Jan. 4-Mar. 27. Mar. 21-27.	35 134 05 279 14 2 1 8 1 2 3	6 10 72 25 25 224 6 6	June 27, 1925-Mar. 20, 1926 Cases, 1,089; deaths, 580. Sept. 13-Jan. 2: In 7 Provinces 186 cuses. Jan. 3-Feb. 27, 1926 Cases, 277- Jan. 3-May 1, 1926: Cases, 70. From Drumheller, vicinity of
Brazil:  Manaos.  Do.  Para.  Rio.de Janeiro.  Do.  Do.  British East Africa:  Kenya—  Mombusa.  Do.  Tanganyika territory—  Dar-es-Salaam.  Uganda Protectorate.  Do.  British South Africa:  Northern Rhodesia.  Southern Rhodesia.  Cauada.  Alberta.  Calgary.  British Columbia—  Vancouver  Victoria.  Manitoba.	Dec 1-31 Jan. 31-Feb. 20 Jan. 10-May 8 Nov. 1-28 Dec. 6-26 Dec. 27-Apr. 3  Nov. 15-Dec. 19 Dec. 27-Mar. 20 Feb. 21-27 Sept. 1-Oct. 31 Feb. 1-28 Jan. 5-11 Nov. 13-Dec. 23  Dec. 13-19 Jan. 4-Mar. 27 Már. 21-27.	35 134 05 279 14 2 1 8 1 2 3	6 10 72 26 224	June 27, 1925-Mar. 20, 1926 Cases, 1,089; deaths, 580.  Sept. 13-Jan. 2: In 7 Provinces 186 cases. Jan. 3-Feb. 27, 1926 Cases, 277- Jan. 3-May 1, 1926: Cases, 70. From Drumheller, vicinity of Calgary.

# Reports Received from December 26, 1925, to June 4, 1926—Continued SMALLPOX—Continued

Janada—Continued. Ontario	Jan. 1-Feb. 1 Feb. 1-28			
Ontario  Admaston Alice and Fraser King Wilmot Belleville	Jan. 1-Feb. 1			
Alico and Fraser King Wilmot Belleville	Jan. 1-Feb. 1	1		Dec. 1-31, 1925: Cases, 32. Jan 3-May 8, 1926: Cases, 269.
King Wilmot Belleville	Fab 1-98	16		Township.
Wilmot Belleville	- CD- 1 MO	6 7		Do.
Belleville	do	6		Do. Do.
	do	4		
Kingston	Mar. 8-14	Ī		
Kitchener	ldo	26		
North Bay	Feb. 14-Mar. 14	7		
Ottawa	Dec. 6-12	2 2		
Do Sarnia	Mar. 14-May 8	9		
Toronto.	Dec 27-Jan. 2	ľ		
Do	Jan. 3-May 15	31		
Trenton	Jan. 3-Apr. 17	15		
Saskatchewan	7 0 35 00	<u>2</u> -		Jan. 3-May 8, 1926: Cases, 131.
Moose Jaw	Jan. 3-Mar. 20 Jan. 24-May 1	5		
Regina Saskatoon	Feb. 14-20	1		
Deylon:	100.11 20	1 1	[	
Colombo	Dec. 6-12	1		Port case.
Do	Jan. 3-Feb. 6	5		
Ohile:	70.00	ļ	۱ .	
Punta Arenas	Dec. 13-26 Dec. 27-Jan. 2		8 4	•
Do Dhina:	Dec. 27-Jan. 2		*	
Amoy	Oct. 25-Dec. 19	l	1	
Do	Oct. 25-Dec. 19 Jan. 10-Apr. 17		35	
Antung	Dec. 7-20	1 2		
Do	Mar. 21-Apr. 24	2		
Changsha	Feb. 21-27			Present.
Chungking	Nov. 15-17 Feb. 28-Apr. 3			Do.,
Foochow.	Nov. 1-Apr. 17			Do.
Hankow	Nov. 14-Dec. 26	4		
Do	Jan. 10-Mar. 6 Nov. 22-Dec. 26	3		
Hongkong	Nov. 22-Dec. 26	4	]	
Do	Jan. 3-Apr. 3	17	5	
Manchuria— An-shan	Dec. 6-12	1	i	
Do	Jan. 10-Apr. 24	10		
Changchun	do	23		
Dairen	Oct. 19-Dec. 27	73 87	15	
Do	Dec. 28-Apr. 4 Jan. 17-Apr. 24 Jan. 1-Apr. 22 Jan. 10-30 Jan. 31-Feb. 20	87	. 28	
Fushun	Jan. 17-Apr. 24	5 22		
Harbin Kai-yuan	Tan 10-30			
Kungchuling	Jan. 31-Feb. 20	4 2 6		
Lio-yang.	Jan. 17-Apr. 24 Oct. 24-Nov. 15			
Mukden	Oct. 24-Nov. 15	1		
Do Suping-kai	Jan. 24-Feb. 27	4	ļ	
Tieh-ling	Mar. 14-Apr. 3 Oct. 26-Nov. 15	2 2		
Do	Apr. 18-24	ī		
Nanking	Apr. 18-24 Nov. 21-Dec. 26			Do.
DoShanghai	Dec. 27-Apr. 24 Oct. 25-Jan. 2			Do.
Shanghai	Oct. 25-Jan. 2	37	36	Garage Consistent Andre
Do.	Jan. 3-Apr. 17	58	140	Cases, foreign only. Prevalent.
SwatowTientsin	Nov. 22-Apr. 24 Nov. 1-Dec. 19	2		rievaient.
Do	Jan. 23-Feb. 27	2		
Chosen:			1	
Seishin	Jan. 1-Mar. 31	58	33	
Egypt:	70.00	١ _	1 -	
Alexandria	Dec. 3-31 Jan. 8-14	5 2	2	
Do	Jan. 8-14 Jan. 29-Apr. 8	63	11	
Cairo	Dec. 25-31	14	l	
Do	Jan. 1-7	3		
Port Said	Feb. 26-Mar. 4	1		November, 1925: Cases, 3.

### Reports Received from December 26, 1925, to June 4, 1926—Continued

### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
France				September - December, 1925;
Do	Jan. 1-31	57		Cases, 253.
Havre	Jan. 25-31		9	
Paris	Mar. 1-Apr. 30	11 58	2 5	
Gold Coast	September, De-	i io	"	
D0	Jan. 1-31	36	3	
Great Britain:	1	-		
England and Wales				Nov. 15-Dec. 26, 1925: Cares, 790; Dec. 27-May 1, 1926: Cases, 4,290.
Bradford	May 2-8	1		4,200.
Hull	May 2-8 Dec. 27-Jan. 23 Feb. 7-Mar. 27	29		
Do	Feb. 7-Mar. 27	9		
Leeds	Jan. 14-Feb. 6	4		
London Newcastle-on-Tyne	Jan. 31-Feb. 6		1	
Newcastle-on-Tyne	Nov. 29-Dec. 19 Dec. 27-May 2 Nov. 22-Dec. 26 Dec. 27-Apr. 21 Nov. 22-Dec. 12	.6		
D0	Dec. 27-May 2	11 9	1	
Nottingham	Nov. 22-Dec. 26	9		
Sheffield	Nov. 22 Tion 12	8 7		
Do	Dec 20-26	3		
Do	Dec. 20-26 Dec. 27-Mar. 20 Apr. 25-May 8 Feb. 9	18		
Do	Apr. 25-May 8	3		
Do South Shields	Feb. 9			Reported present in severe form.
Greece				Oct. 1-31, 1925; Cases, 16.
Athens	Nov. 1-Dec. 31 Jan. 1-Mar. 31	18	1	11,000
Do	Jan. 1-Mar. 31	87	6	
Kalamata	l Mar. 1-7	1		From Patras.
Saloniki Guadeloupe (West Indies)	Feb. 16-Mar. 15		2	
				Apr. 23-May 10, 1926: Present. Alastrim.
India	-54000000000000000000000000000000000000			Oct. 18-Dec. 26, 1925; Cases,
Bombay Do	Nov. 8-Dec. 26 Dec. 27-Apr. 10	26 328	20 171	19,172; deaths, 4,440. Dec. 27, 1925-Apr. 3, 1926: Cases, 91,859; deaths, 23,883.
Calcutta	Nov. 8-Dec. 26 Dec. 27-Apr. 3 Nov. 1-21 Nov. 20-Dec. 5 Dec. 13-19	48	25	THE PARTY HOLDOW
Do	Dec. 27-Apr. 3	620	397	
Karachi	Nov. 1-21	23		
Do	Nov. 20-Dec. 5	4	2	
Do	Dec. 13-19	3		
Do Madras	Dec. 29-Apr. 24 Nov. 15-Dec. 26 Dec. 27-Apr. 24 Oct. 25-Dec. 26	127 17	40	
Do	Dog 97-App 94	145	26	
Rangoon	Oot 25-Dog 26	7	1	,
Do	Dec 27-Top 16	13	î	
Do	Dec. 27-Jan. 16 Jan. 24-Mar. 6	70	17	
1)0	Mar. 21-Apr. 17	29	9	
Indo-China				September - November, 1925:
Province-				Cases, 346; deaths, 86.
Annam Cambodia	Sept. 1-Dec. 31	232 84	44 34	
Cochin China	do	104	51	
Saigon	1300 91-97	106	97	
Do	do. Dec. 21–27 Jan. 1–Mar. 28.	14	1 2	Including 100 square kilometers
Tonkin	Sept. 1-Dec. 31	153	2	of surrounding country.
Iraq:				The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Bagdad	Nov. 1-Dec. 26	19	15	Sept. 6-Oct. 17, 1925; Cases, 81;
Do	Dec. 27-Apr. 17	23	13	deaths, 40.
Basra	do	67	51	
Italy				Aug. 2, 1925-Jan. 2, 1926: Onses,
Catania Do	Feb. 15-28 Apr. 27-May 2 Jan. 21-Feb. 10	7	1	52. Jan. 3-Feb. 20, 1926; Cases,
Genoa	Ton 91-Feb 10	4		26.
33	. vou. 41-FUD. 10	1 1		
Kome	One 12-25			Occurring in consular district.
Rome	. Oct. 12-25	i Y		
120-	Cot. 12-25 Feb. 22-28	1		Nov 20-Dec 26 1008. Canan Of
Rome Do Jamaica	. Oct. 12-25	1		Nov. 29-Dec. 26, 1925; Cases, 95. Dec. 27, 1925-Apr. 24, 1926; Cases, 509. Reported as alas-
Jamaica.	Oct. 12-25 Feb. 22-28			Nov. 20-Dec. 26, 1925; Cases, 96. Dec. 27, 1925-Apr. 24, 1926; Cases, 509. Reported as alas- trim.
Jamaica.	Oct. 12-25 Feb. 22-28			Nov. 29-Dec. 26, 1925; Cases, 95. Dec. 27, 1925-Apr. 24, 1926; Cases, 509. Reported as alas- trim. Reported as alastrim.
120-	Oct. 12-25 Feb. 22-28			Nov. 20-Dec. 26, 1925; Cases, 95. Dec. 27, 1925-Apr. 24, 1926; Cases, 509. Reported as alas- trim.

# Reports Received from December 26, 1925, to June 4, 1926—Continued SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
Japan:				
Kobe	Mar. 14-Apr. 17	3		
Nagasaki	Reb 15-25	2		
Taiwan	Nov. 11-Dec. 10	3		
Do Yokohama	Nov. 11-Dec. 10 Mar. 21-31 Dec. 14-20 Feb. 23-Apr. 17	3		
Yokohama	Dec. 14-20	1		
Do	Feb. 23-Apr. 17	71	] 11	
Java:			1	
Batavia	Oct. 24-Dec. 25	8		
Do	Feb. 20-Mar. 19	6		
Buitenzorg	Nov. 29-Dec. 5	1		
Cheribon	Nov. 8-Dec. 12	2		
Do	Jan. 31-Feb. 6		] 1	
Kraksaan	Jan. 31–Feb. 6 Oct. 11–17 Oct. 11–Dec. 26	11		
Malang	Oct. 11-Dec. 26	2		
Do	Dec. 27-Jan. 16	3	2	}
North Bantam	Oct. 4-17	4		
Pekalongan	l Oct. 25-31	1		
Pontianak	Jan. 31-Feb. 6		1	•
Probolinggo	Oct. 11-17	1		
Serang	Feb. 14-27 Feb. 23-Mar. 27 Oct. 11-Dec. 26 Dec. 27-Mar. 13	5		
South Bantam	reb. 23-Mar. 27	1		1
Surabaya	Oct. 11-Dec. 26	633	104	
Do	Dec. 27-Mar. 13	141	43	
Tegal	Oct. 4-10	9	1	
Latvia			}	December, 1925: Cases, 3.
Malta	Nov. 1-Dec. 21	21	3	· ·
Do	Jan. 1-Feb. 28	20		
Martinique	May 10			Prevalent.
Mexico				July-September, 1925: Deaths,
Aguascalientes	Dec. 13-Jan. 2	4	3	1,157.
Do	Jan. 3-30		7	
D0	Feb. 14-May 8		4	
Chihuahua	May 9-17	7		
Ciudad Juarėz	do		1	1
Durango	Dec. 1-31		1 2	1
Do	Jaα. 1-01			1
Guadalajara Mexico City	Dec. 27-May 17		26	7. 3. 3
Mexico City	Nov. 28-Dec. 5	1		Including municipalities in Fed-
The	You 9 Mars 1	17		eral District.
D0	Jan. 3-May 1			Do.
Saltillo	Apr. 4-10 Jan. 17-Mar. 20	1	53	l .
Do Do	Mar. 28-May 15		99	Í
Tampico.	Dec. 21-Jan. 2	15 1	33 1	
_ Do	Jan. 2-Mar. 10	8	1	
Torreon	Nov 1-Dag 21	•	51	
Do.	Nov. 1-Dec. 31 Jan. 1-Apr. 30			
Vera Cruz	Mar. 29-Apr. 4	5	80	
Netherlands:	ATION . AU-MIN . Town	9	1 1	'
The Hague	Jan. 30-Mar. 6	2	1	
Nigeria.	TWALL OU ARROLD U	-	1	Aug. 1-Dec. 31, 1925: Cases, 389;
Do	Jan. 1-31	135	1	deaths. 6.
Palestine:		100		Cours, V.
Hebron	Jan. 26-Feb. 1	2		
Tiberias	Feb. 9-15	ī		
Persia:	200.0 1022222	_		
Tcheran	July 23-Dec. 22		775	
Do	Dec. 23-Feb. 19		99	
Peru:	2.000 20 20 20 20 20 20 20 20 20 20 20 20			
Arequipa	Oct. 1-Dec. 31	ł	2	
Poland				Nov. 1-28, 1925: Cases, 9. Jan.
			[	1-16, 1926: Cases, 4.
Portugal		L		Mar. 1-28, 1926: Deaths, 6.
Lisbon	Oct. 4-31	124		amount a may rough proceeding to
Do	Nov. 16-Dec. 27		60	
	Nov 14-Dec 26	187		( )
		126	32	Į.
Do	Dec. 27-Apr. 25			
Do	Nov. 16-Dec. 27 Nov. 14-Dec. 26 Dec. 27-Apr. 25 Nov. 22-Dec. 19	2.20	9	
Do Do Oporto	Nov. 22-Dec. 19	2	3	
Do Do Oporto Do	Nov. 22-Dec. 19 Dec. 27-Apr. 24	2 4	3	
Do	Nov. 22-Dec. 19	2	3	May-June. 1925: Cases 2.332.
Do Do Oporto Do	Nov. 22-Dec. 19 Dec. 27-Apr. 24	2 4	3	May-June, 1925: Cases, 2,333. July 1-Dec. 31, 1925: Cases,

### Reports Received from December 26, 1925, to June 4, 1926—Continued

### SMALLPOX-Continued

	SMALLFUA	COHE	aueu	
Pluce	Date	Cases	Deaths	Remarks
Senegal:				
Dakar	Apr. 19-25	1		
Siam				July 12-Sept. 5, 1925: Cases, 21:
Bangkok	Dec. 20-25	3	1	deaths, 6.
Do	Dec. 26-Mar. 6		37	
_Do	Mar. 14-Apr. 10	30	18	
Sierra Leone: Konno district	Dec. 16-31	5		
Spain: Madrid	Year 1925		18	
Do	Jan. 1-31			
Malaga	Nov. 29-Dec. 5		2	
Do	Dec. 27-Jan. 2		1	
Valencia	Dec. 20-26	1		
Do	Dec. 27-Jan. 2			
D ₀	Jan. 10-Feb. 6			
D ₀	Feb. 14-May 8	15		
Straits Settlements:	35 50 1			
Penang	Mar. 28-Apr. 3		1	
Singapore	Dec. 20-26	1 8	2	
Do	Jan. 10-Mar. 2/		4	
Sumatra: Medan	Feb. 14-27	2	1	
Switzerland	F CD. 14-21	-		June 28-Nov 21, 1925: Cases, 62
Lucerne	Oct. 1-Nov. 30	8		Dec. 27, 1925-Feb. 27, 1926
Do	Jan. 1-31	5		Cases, 48.
Zurich	Dec. 27-Jan. 2	ľ		,
Syria:	_, -, -, -, -, -, -, -, -, -, -, -, -, -,	_		
	Apr. 11-20	1		
Damascus Trinidad (West Indies):	-		1	
Port of Spain	Jan. 1-Apr. 3	12		
Tripolitania	July 1-Dec. 31	34		
Do	Jan. 1-31	3		
Tunisia:	37 04 55		[	
Tunis	Nov. 21-30	2		•
<u>D</u> o	Dec. 11-31		1	
Do Turkey:	Jan. 1-Apr. 20	'		
Constantinople	Mar. 9-23	2	3	
Union of South Africa:	171a1. 0-20	-	, ,	
Cape Province	Jan. 17-23		L	Outbreaks.
Orange Free State—	1			
Kuruman district	Jan. 10-16			Do.
Ladybrand district	Jan. 10-16 Dec. 27-Jan. 2			Do.
Transvaal-	1 .	i	1	1
Belfast district	do			Do.
Germiston district	Jan, 2-9			Do.
Pretoria district	Dec. 6-12			Outbroaks. In native com
On vessel	Feb. 21	2		pounds. Mexican steamer Montezuma, a Port of Ensenada, Mexico.
	TYPHU	 S FEVI	SR.	
	1		<del></del>	1
Algeria:		}	1	
Algiere	Now 1-Dec 20		1	1

Algeria: Algiers	Nov. 1-Dec. 20	•			
		-4			
Do	Jan. 1-Apr. 10	18			
Argentina:	· ·				
Rosario	Oct. 13-Dec. 31	2			
Bulgaria	Sept. 1-Dec. 31	50	3		
Do	Jan. 1-31	42	_		
		44			
Sofla	Dec. 25-31	1		1	
Do	Jan. 8-14	2		į	
Canary Islands:				Į.	
Santa Cruz de Tenerife	Mar. 8-14	1	ì	1	
Chile				Dec. 15-31, 1925; Cases, 46. Ja	
Achao	75 77 97				err.
	Dec. 15-31	1		1-15, 1926: Cases, 23.	
Do	Jan. 1-15	1		1	
Ancud	do	2	I		
Antofagasta	Apr. 11-17	1 7		<b>\</b>	
Bulnes	Dec. 15-31	1 7		ł	
Ohillan	do	1		[	
		24			
Concepcion	do	1 6	i .	1	

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# CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

### Reports Received from December 26, 1925, to June 4, 1926—Continued

### TYPHUS FEVER-Continued

Place	* Date	Cases	Deaths	Remarks
Chile—Continued.				
Linares	Decr 15-31	1		
Los Angeles	do	5		
Penco	do	2		
Salamanca	do	17		
San Carlos	do	1		
Talca	do Nov. 29–Jan. 2	1		
Valparaiso	Nov. 29-Jan. 2	5	2	
Do	Jan. 3-Mar. 27	4		
China:				
Antung	Nov. 29-Dec. 27	5	1	
Do	Jan. 4-Apr. 11	15		
Hongkong.	Dec. 27-Jan. 2	1		
Manchui ia—				
Harbin	Dec. 17-Feb. 4	3		
Do	Apr. 2-8	1		
Shanghai	Mar. 14–20 October-December	1		
Czechoslovakia	October-December	146	1	
Do	Jan. 1-31	32		
Egypt:				
Alexandria	Jan. 8-Feb. 25	2		
Cairo	Nov. 5-Dec. 16	3	2	
Port Said	Nov. 19-25	i		
Do	Mar. 12-18	1		•
Esthonia.	Jan. 1-31	6		
Finland.				October, 1925: 1 case.
France	July-October	4		
Grecce		-		December, 1925: Cases, 12.
Athens	Nov. 1-30 Jan. 1-Mar. 31 Dec. 29-Jan. 4	11	2	200021201, 20201 00000, 221
Do	Jan. 1-Mar. 31	45	2 9	
Do Saloniki	Dec 29-Jan 4	ĩ		
Do.	Feb. 2-Apr. 19	3		
Hungary.	2 CD. 2 12p1, 101111			November-Decomber, 1925:
770000 J				Cases, 16. Jan. 1-31, 1926:
		ĺ		Cases, 6.
Ireland:				Cubeb, o.
Cork County-			1	
Cork.	Dec. 26-Jan. 1	2		*
Do	Jan 2-8	5		
Do.	May 2-8	ĭ		
Dumanway	May 2-8 Nov. 14	î		
Galway County	Oct. 17	î		
Kerry County—	O00. 11	_		,
Listowel	Mar. 7-13	1		Rural district.
Wexford County-	11101. 1-10	•		TOTAL CHARLES
Gorey	đo	1	•	Do.
Latvia	October-December	12		20.
Do	Feb. 1-28	18		
Riga	Oct. 1-31	10		
Lithuania	Occ. 1-a1	_		Santamban Dagamban 100K
Thursday				September-December, 1925 Cases, 26; deaths, 1. Jan. 1-31, 1926: Cases, 16; deaths, 1. July-September, 1925: Deaths,
		İ		1000, Come 10, deaths 1
Marias	-			Terier Contombon 1005. The the
Mexico.		ī		July-September, 1925: Deaths,
Aguascalientes	Dec. 14-19			90.
Do	May 2-8		1 1 1	
Durango	Dec. 1-31		1	
Do	Jan. 1-31		Ī	
Guadalajara	Dec. 8-28		2	
Do_ Mexico City	Dec. 29-Jan. 4		1	w. w w
Mexico City	Nov. 22-Dec. 26	50		Including municipalities in Fed-
The Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co	D 07 3			eral District.
Do	Dec. 2/-Mar. 20	89		Do.
Do	Mar. 28-Apr. 10	11		Do.
Do	Dec. 27-Mar. 20 Mar. 28-Apr. 10 Apr. 25-May 1	10		Do.
San Luis Potosi	Feb. 6-13 Dec. 21-Jan. 10		1	
Tampico	Dec. 21-Jan. 10	1	1	
Torreon	November, 1925		1	
Vera Cruz	Feb. 12		ī	
Morocco	August-December	93		İ
Do	Jan. 1-31	57		
Norway				November-December, 1925:
	-	1	1	Cases, 2.

### Reports Received from December 26, 1925, to June 4, 1926—Continued

### TYPHUS FEVER- Centinued

Place	Date	Cases	Deaths	Remarks
Palestine:				manyari manang manan manif manif filozofi manangan dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasahi dinasa
Ekron	Mar. 30-Apr. 5	1		
Gaza	Dec. 18	1		
Haifa	Mar. 16-Apr. 19	2		
Jaffa	Dec. 1-7	1		
Do	Tab 93_Mar 1	ī		
Nazareth	Nov. 3-9 Mar. 16-22 Nov. 24-30	î		
Ramleh	Mor 16-99	î		
	Min 10-22	1		
Safed	1107 24-30			
Tel-Aviv	do	1		
Do	Mar. 9-15	1 2		
Tiberias	do	2		
Peru:			_	
Arequipa	October-December		3	
Do	Feb. 1-Mar. 31		2	
Poland	Oct. 11-Jan. 2	462	44	
Do	Jan. 3-Feb. 13	611	45	
Rumania		l		July 1-Dec. 31, 1925: Cases, 348
Constantza	Feb. 1-Mar. 10	2		deaths, 41.
Russia				May-June, 1925: Cases, 10,680.
Do				July 1-Nov. 30, 1925; Cases, 7,080
Tunisia:				Van 3 1 1 1 0 1 1 0 0 1 1 0 1 0 1 C 1 1 0 0 0 0
Tunis	Mar. 21-31	3		
Turkey:	1VI til . 21-31	٥		
Turkey:	7 04 00		i	
Constantinople	Jan. 24-30	3		
D0	Feb. 9-Mar. 31	6-	4	0.4-3:
Union of South Africa				October, 1925: Cases, 88; deaths
Cape Province Do Do Grahamstown Middleburg district Natal Do Durban Port Shepstone Orange Free State Do Do Bethulia district Bothaville district Transvaal Do Do Johannesburg district Bloemhof district Yugoslavia	Jan. 1-Apr. 2. Jan. 24-30. Dec. 6-12. Oct. 1-Dec. 5. Jan. 1-Feb. 28. Jan. 3-Apr. 17. Apr. 4-10 Nov. 29-Dec. 5. Dec. 1-31. Jan. 1-Feb. 28. Dec. 6-12. Oct. 1-31. Jan. 1-Feb. 28. Dec. 6-12. Add. Oct. 1-31. Jan. 1-31. Jan. 1-31. Jan. 1-31. Jan. 1-31. Jan. 1-31. Jan. 1-31. Jan. 1-31. Jan. 1-31. Jan. 1-31. Jan. 1-31. Jan. 1-31. Jan. 1-31. Jan. 1-31. Jan. 1-31. Jan. 1-31. Jan. 1-30.	i	1 1 1 3 1	October, 1925: Cases, 88; deaths 7 (colored). Cases, 88 turopean 7. December, 1925: Cases, 78 deaths, 9. Colored: Cases, 73 deaths, 9. January-February 1926: Cases, 163; deaths, 28. Colored. Apr. 4-10, 1926: Out breaks in Mount Currie and Tsolo district.  European. On farm.  Colored.  Do. Outbreaks. Native. On farm.  Outbreak. On farm.  Outbreak. On farm. Jun. 1-Mar. 21, 1926: Cases, 105 deaths, 18.
	YELLOV	V FEVE	ir.	January and a commentation of the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and the structure and
Gold Coast Nigeria Senegal	Sept. 1-Dec. 31 August-October November, 1925	4 3 3	3 2 2	And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s

### TREASURY DEPARTMENT

# PUBLIC HEALTH REPORTS

ISSUED WEEKLY

BY THE UNITED STATES PUBLIC HEALTH SERVICE

Volume 41 :: :: Number 25

JUNE 18 - - - 1926

### SPECIAL ARTICLES

Observations on Endemic Typhus in Southern United States Destroying Engorged Anopheles as Malaria-Control Measure



WASHINGTON GOVERNMENT PRINTING OFFICE

### UNITED STATES PUBLIC HEALTH SERVICE

HUGH S. CUMMING, Surgeon General

### DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg. Gen. B. J. LLOYD, Chief of Division

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# PUBLIC HEALTH REPORTS

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# CLINICAL OBSERVATIONS ON ENDEMIC TYPHUS (BRILL'S DISEASE) IN SOUTHERN UNITED STATES

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During the past three years, 209 cases of endemic typhus have been diagnosed and reported in Alabama and Georgia. Many more doubtless occurred, but were undiagnosed or unreported. In 114 cases, more or less complete clinical notes have been obtained—in 41 by personal visits and in the remainder through the cooperation of the attending physicians, who have kindly consented to fill out case history forms. From this material has been derived the clinical description of the disease which is herewith presented.

### CLINICAL COURSE

Briefly stated, endemic typhus is a fever lasting two weeks and characterized by a maculo-papular skin eruption and nervous symptoms.

The following is a brief account of an extremely mild case. Such a case is likely to escape recognition unless the attending physician is familiar with the clinical syndrome.

Case M 81.—Patient of Dr. C. F. Pearson, Montgomery, Ala.; white, male, age 24, salesman of fruit and produce. On the night of October 19, while returning from an automobile trip, he felt "chilly" and sick. The following day he was "dizzy" and he thinks he had some fever, but was able to go to work. He "dragged himself about" until October 25, when he felt so weak that he remained in bed. He was somewhat nauseated and vomited once or twice. His throat felt sore and he had a slight, hacking cough. He had pains in the back of his head and neck and "ached all over." He was nervous and depressed. No skin eruption was noted by his physician, by himself, or by his wife, who attended him. On the ninth day of his illness a blood examination was made, and the pathologist, on his own initiative, had a Weil-Felix test performed. The serum agglutinated X 19 in a dilution of 1: 640. The white blood cell count was 14,000. When examined on the morning of the tenth day he had a few scattered macules on his body which could with difficulty be distinguished from acne spots and natural blemishes on a dark skin. On the afternoon of the same day, due to rise in body temperature, the eruption came out more definitely and was plainly visible, but was scant and of limited distribution. It had disappeared entirely two days later. His fever at its highest did not exceed 103.5° F.; it declined by

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¹ The author desires to express his great indebtedness to Dr. L. C. Havens and Dr. C. N. Leach, of Montgomery, Ala., and to Dr. Victor C. Bassett and Dr J. R. Bean, of Savannah, Ga., for assistance in collecting these notes, and to the many members of the medical profession of Alabama and Georgia for their contribution to this study.

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remissions during the second week and returned to normal on the fourteenth day. On the evening of the thirteenth day he experienced a sudden relief from his distressing subjective sensations. Convalescence was rapid and uneventful.

The following case, which also occurred in Montgomery, illustrates a severe type of infection. It resembles more nearly the description of Old-World epidemic typhus:

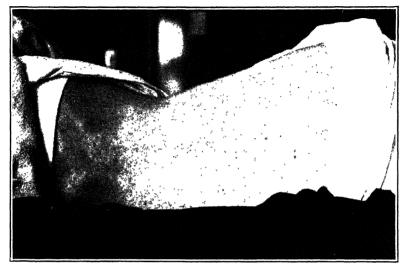
Case M 79 .- Patient of Dr. Bernard Mount, Montgomery, Ala.; white, male, age 22, bank clerk. Became ill with chilly sensations and general aching on September 30, and was admitted to the Memorial Hospital on October 3. fever curve (see accompanying graph) showed a steplike rise as he became increasingly ill. He complained bitterly of headache, muscular soreness, and was extremely uncomfortable. He developed a slight, backing cough. His conjunctivae became severely congested; photophobia was marked. On the fifth day the characteristic maculo-papular cruption appeared (see illustration), and was soon distributed over the entire body, except the face, palms of the hands, and soles of the feet, where only a few scattered macules were visible. At first drowsy, irritable, and apathetic, his mental condition became progressively worse. Toward the end of the second week he lay in a stuporous condition from which he could be aroused with difficulty. On the seventh and eighth days his sputum showed an admixture of fresh red blood; no signs of pulmonary consolidation could be detected. The fever reached its heighth on the seventh day, was more and more remittent in character, declining abruptly to normal about the fourteenth day. With the disappearance of the fever, the patient remained extremely weak, prostrated, and depressed for a week longer before convalencence was definitely established. Recovery was slow, but there were no complications except slight deafness which cleared up in a few days. White blood cell count on the fourth day was 12,000; Weil-Felix reaction, negative on the fifth day, became positive with a titre of 1:1280 on the twelfth day. One of two guinea pigs inoculated on the fourth day, showed a typical typhus response, and the strain has been since used for experimental purposes.

Every gradation in the clinical picture between these two illustrative eases has been seen. This variation can best be brought out by a detailed discussion of the symptomatology.

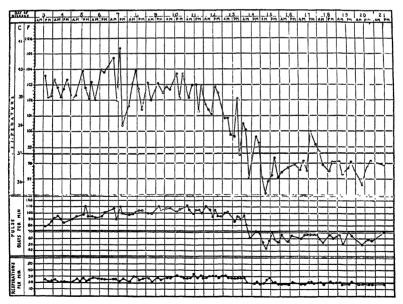
### SYMPTOMATOLOGY

Onset.—In a majority of cases (65 per cent) the onset was abrupt, with chills, fever, malaise, headache, and prostration, which brought the patient rapidly to his bed. He was usually sufficiently ill to call a physician within the first two or three days. In a minority of cases the onset was preceded by an indefinite period—one to twelve days or more—during which time the patient had not felt well (prodromata).

Fever.—The temperature rose with steplike progression with remissions, resulting in frank chills or chilly sensations. It reached maximum usually between the fifth and eighth days. Wide daily variations throughout the course were usually recorded. During the second week the remissions approached more and more closely to normal, and the daily rise became less marked. About the fourteenth day the rise failed to occur. The patient experienced rather sudden relief from distressing sensations. The termination was commonly by lysis,



The maculo-papular skin eruption of endemic typhus fever on the eighth day of the disease. Case M 79, Montgomery, Ala.



Fever chart of case M 79, Montgomery, Ala.

though in some instances by a rapid lysis as illustrated in the accompanying fever chart.

One of the most striking features of the disease was its uniform duration of about two weeks. An analysis of 94 cases showed that 36 per cent terminated between the thirteenth and fifteenth days, and 86 per cent between the twelfth and sixteenth days. Four of the 94 cases reached normal about the tenth day (abortive cases), and four complicated cases remained ill 21 days or more.

Eruption.—In 85 cases a definite observation was recorded upon the time when the eruption was first noted. The most frequent time of appearance was about the fifth day. Occasionally spots were detected as early as the second day. In over 90 per cent of instances it appeared before the eighth day. In the few remaining cases in which it was noted later, there was question whether the eruption had really appeared earlier but had not been noticed, or whether prodromal symptoms had been included in calculating the date of onset.

The evolution of the cruption was rapid. At first a few spots were seen here and there, particularly on the abdomen or on the flexor surface of the forearms or about the shoulder anteriorly. Within 24 hours the distribution became general, except in those mild cases in which it remained more or less limited. The face, palms of the hands, and soles of the feet were usually spared; though in the more severe cases a few macules, rarely many, appeared in these locations. Some of the spots were slightly elevated. (In a negro who had the disease I was able to see and feel the elevations before I could make out the definite discoloration.) As the profuseness of the eruption increased, the color changed from a dull red to a darker hue with a purple tinge. At this stage if the skin was blanched locally many of the spots disappeared, but some at least left behind a brownish stain. Sometimes the small spot with a dark center predominated, giving the skin a "fleabitten" appearance; in others only macules were seen, The eruption commonly developed no farther than this, lasting from 48 to 72 hours and disappearing. In the more severe cases (see accompanying illustration) it became quite profuse and many of the spots became definitely petechial in character, reaching maximum intensity in four to six days. As it began to subside, the crythematous spots disappeared first, leaving those which were more definitely hemorrhagic in character. In a majority of instances the skin was clear by the time convalescence was established; though in a few, evidences of the eruption remained for another week or more, being evident particularly after a warm bath.

The chief characteristic of the efflorescence was its *irregularity*; the spots were irregular as regards size, coloration, elevation, outline, and distribution.

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In six of the 114 cases the eruption was either not present at all or so fleeting and faint as to escape the notice of the patient, his attendants, and the physician.

Respiratory system.—There was usually some evidence of a mild inflammation of the respiratory tract. More than 90 per cent developed a characteristic short, "hacking" cough. It seldom became sufficiently marked to distress the patient; indeed, it was likely to be unnoticed until attention was directed toward it. In one instance a bloody sputum was brought up on the seventh and eighth days of the disease without detectable pulmonary consolidation. Only two cases in the entire series were complicated by bronchopneumonia.

Cardiovascular-renal.—The distinctive pathology of typhus is based upon acute lesions of the blood vessels, with thrombosis and perivascular accumulations of cells derived from the adventitia and the blood. This is the type of lesion which is responsible for the skin eruption which has been described. Thrombosis of a femoral vein occurred as a complication in one case in this series. Three of the deaths occurred suddenly in young men who did not appear to be particularly ill. Post mortem examination was not obtained, but the nature of the death suggested either a severely damaged myocardium with acute dilatation or the sudden liberation of a thrombus. Albumin and casts are sometimes found in the urine, but not more so than would be expected with any acute infectious disease.

Visceral.—During the onset of the disease there was nearly always some nausea; the patient usually vomited once or twice. In a few cases this nausea persisted and was rather distressing, but in a majority it passed off in a few days and was succeeded by an aversion for food which lasted until convalescence was established. The tongue was heavily coated, with red edges. The breath was offensive.

As a rule, the bowels were constipated, due probably to the limited food intake. In contradistinction to typhoid, the abdomen was flat and scaphoid. In one or two instances severe pain was referred to the abdominal region, suggesting an acute appendix or a cholecystitis.

Localized tenderness was absent, however, except in the region of the spleen, which became palpably enlarged only in a small proportion of cases.

Nervous.—The disease was nearly always ushered in with severe headache. This was so severe at times as to suggest the necessity for lumbar puncture. It was usually referred to the frontal region. Pain in the back of the neck was almost as frequent. Acute pain was often localized in some particular area—the lower back, the abdomen, the calves of the legs, etc. Hyperesthesia was not noted.

Most patients complained of "aching all over," referring to the muscles rather than the joints.

Mental.—In only 12 out of 65 cases in which note was made was the mental condition recorded as unchanged. Of the remaining 53, in 12 the patient was dull or apathetic; in 12 described as "nervous"; in 10 exhibited a combination of dullness with nervousness and irritability; in 4, nervousness with delirium; in 13, dullness with nervousness and delirium; in 2, dullness with delirium.

Thus, there was some degree of delirium at some time during the course of the illness in about 29 per cent of the cases. It varied from "night terrors" to a complete disorientation and confusion, which in one instance lasted for a week after the temperature had returned to normal. The delirium for the most part was associated with high temperatures.

The "nervousness" which was recorded in 60 per cent of the cases was rather characteristic. The patient became irritable, impatient. Noises were extremely disturbing. He tossed about in bed, was unable to find a comfortable position, slept fitfully, had bad dreams by night. He was complaining and querulous. He was unreasonable in his demands upon the family and upon his physician.

Mental dullness was observed in about an equal number of instances. It ranged from a slight apathy, apparent only during the first few days, to a profound depression or stupor which lasted well into convalescence. The patient was commonly depressed and feared a fatal outcome.

Convalescence.—Although the illness lasted but two weeks, the patient was severely prostrated and in a weakened condition at its termination. It was usually another week before he could get out of bed, and a month or two before he could resume work. He was likely to be nervous and depressed for some time. In two instances there was some loss of coordination in the leg movements, which was regained slowly.

Complications.—Complications were notably absent. In the entire series of 114 cases there were only two instances of bronchopneumonia and one case of thrombosis of the femoral vein. In one case which terminated fatally, there was a suppurative parotitis.

Fatality.—During the past three years eight deaths have been attributed to this disease in Alabama and Georgia. It is impossible to give the case fatality rate accurately since the total number of cases which occurred in these two States during this period is unknown, but it was certainly not over 4 per cent and probably nearer 2 per cent. Apparently these patients succumbed on account of a damaged cardiovascular system or because they were bad risks for any infectious disease, rather than because of the severity of the typhus intoxication.

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### LABORATORY FINDINGS

Omitting reference to laboratory procedures designed to exclude diseases considered in the differential diagnosis, the white blood cell count and the Weil-Felix reaction are of value in establishing and confirming the clinical diagnosis. The former is of value mainly in a negative sense, in that the absence of a marked leucocytosis on the one hand, or a marked leucopenia on the other, often gives the clinician a lead as to the disease with which he is dealing.

The differential and total count were generally within the normal range. In 46 cases 2 in which the total white count was recorded, the results were as follows:

White cells per cubic initia-	Number
meter	of cases
From— 3, 000 to 4, 900	3 7 20 6 7 2

The specificity of the Weil-Felix reaction 3 for Old World, or epidemic, typhus has become so firmly established that it requires no discussion here. Briefly it is an agglutination reaction similar to the Widal. During the later stages of the disease, the patient's scrum, for reasons not clearly understood, develops an ability to agglutinate in high dilution the proteus bacillus X 19. The reaction is not present during the first week, as a rule, and therefore is of value in confirming, rather than in establishing, the diagnosis.

In 89 cases in which a blood specimen was obtained from the patient on the seventh day of the disease or later, 68 or 76, per cent, agglutinated the Weil-Felix organism—protous X 19, in dilution of 1:100 or more. In eight of the remaining cases the reaction was classed as doubtful, since the agglutination did not occur in dilution greater than 1:80. Of the 13 negative reactions, five were specimens obtained on the seventh, and two on the eighth, day of the disease, too early to demonstrate a reaction late in development.

If a dilution of 1:80 be accepted as specific (and our experience so far indicates this to be a safe criterion when the agglutination is performed by the macroscopic method), and if only those specimens which have been obtained after the eighth day of the disease are considered, then 83 of the 89, or 93 per cent, would have been classed as positive by the Weil-Felix reaction.

² I am indebted to Dr. A. Trumper, of Montgomery, Ala , for many of these counts.

³ Bengston, Ida: The Weil-Felix Reaction as a Laboratory Test in the Diagnosis of Typhus Fever. Pub. Health Rep., Oct 31, 1919, vol. 34, pp. 2446-2450. ⁴ Havens, L. C.: Report to be published.

#### DISCUSSION

The clinical course of the disease as it was encountered in the southern United States differs somewhat from that usually described for the epidemic typhus of the Old World and Mexico. It corresponds to the account of "An Acute Infectious Disease of Unknown Origin, etc.," by the late Dr. Nathan Brill in New York City. Realizing that the disease with which he was dealing resembled typhus fever, Brill rejected this diagnosis because of its relative mildness—the absence of severe toxemia, the rare occurrence of grave nervous symptoms, the very low fatality rate—and because of certain epidemiological considerations.

Dr. G. A. Friedman,⁶ writing from an extensive experience with typhus in western Russia, asserted that these clinical differences were unimportant. In the Old World, where typhus is sporadic or endemic, the disease manifestations are relatively mild and the case fatality is low, corresponding in all essential respects to the cases described by Brill.

Anderson and Goldberger ' were successful in infecting guinea pigs from one of Brill's cases, and in subsequent animal passages showed that the virus was identical with that of Mexican typhus in so far as the two strains afforded cross protection to the infected animals. It was then scientifically accepted that "Brill's disease" was mild typhus.

In similar manner, when these cases were encountered in Alabama ⁸ and Georgia, physicians were loath to believe that they were dealing with typhus fever, among other reasons because of the mildness of the clinical manifestations when compared with the textbook descriptions. It has since been demonstrated that the Weil-Felix reaction is positive in a high percentage of the foregoing cases and that some of the guinea pigs inoculated from a limited number of cases reacted characteristically.⁹

It must be granted, therefore, that this disease in Southern United States is indistinguishable clinically from mild typhus. So far as observed, the low mortality accompanying its endemic prevalence in this country appears to be a fixed characteristic; the wide variations in mortality observed in countries where typhus at times becomes epidemic have not been manifest. The laboratory evidence at present available testifies to the identity or very close relationship of the etiologic virus with that of Old World typhus.

Report to be published.

⁵ Brill, Nathan E.: Amer. Jour. Med. Sci., April, 1910, vol. exxxix, pp. 484-502.

⁶ Friedman, G. A.: Brill's Symptom-Complex; Typhus Fever; Manchurian Typhus, Arch. Int. Med., 1911, vol. viii, pp. 427-439.

⁷Anderson, J. F. and Goldberger, Jos.: The Relation of So-Called Brill's Disease to Typhus Fever. Pub. Health Rep., Feb. 2, 1912, vol. 39, p. 149.

⁸ Maxey, K. F., and Havens, L. C.: A Series of Cases Giving a Positive Weil-Felix Reaction. Am. Jour. Trop. Med., Nov. 1923, vol. 3, pp. 495-507.

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On the other hand, the epidemiology of the disease observed in Southern United States ¹⁰ presents certain differences from that of Old World typhus which suggest that the mode of transmission may not be the same—that there may be some mode other than direct transmission from man to man by means of the bite of a louse.

### SUMMARY

A clinical description of endemic typhus (Brill's disease) based upon 114 cases observed in the southern United States has been presented.

# DESTROYING ENGORGED ANOPHELES AS A MALARIA CONTROL MEASURE

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The value and importance of applying emergency malaria-control measures has been stressed by Fricks (1), Gorgas (2), Howard (3), LePrince (4), Orenstein (5), Ross (6), and others, and again recently in the Report of the International Congress on Malaria at Rome, Italy.

The field workers of the United States Public Health Service have been studying the application of malaria-control measures since 1914, and in malarious localities they find the greatest prevalence among the farm-tenant classes, many of whom are relatively poor, and malaria is not infrequently a contributing cause to their poverty. If a control measure can be devised and applied that will not necessitate any investment of capital until such time as these tenants are better able physically to carry on their daily tasks, it will be in every way advantageous to them.

Although much publicity has been given to matters pertaining to malaria control, it is not uncommon for communities and even health workers to start malaria-control campaigns before studying the nature of the local problem. Not infrequently those who are assigned the task of supervising the field measures have had but little previous field experience, or may be unaware of special measures which were developed and applied years ago, which, if modified, might be very well suited to the conditions surrounding the new undertaking. As a result, methods that are less satisfactory, more expensive, unsuited to the problem, or doomed to failure may be adopted with unfortunate results. Such procedure has a tendency to give the neighboring public a fixed impression that all mosquito-control measures are expensive and of doubtful value.

Report to be published.

Throughout the malarious districts of this and other countries are suburban sections of rapidly growing towns, farming settlements, industrial-plant villages, construction camps, and other groups of homes that have been located in sections particularly favorable for propagation of malaria-bearing mosquitoes, although non-Anopheles producing areas may exist near by. Such errors of selection of location are even yet common, and create conditions that may require emergency mosquito-control measures.

It is particularly important that this subject should be better understood and more widely known by those directing the development of industries or natural resources, and even more so by those connected with the establishing of military or naval camps. Naval, military, engineering, and technical schools can advantageously give this subject the attention it deserves and thereby reduce serious losses that may otherwise occur.

Temporary emergency measures are not as satisfactory as permanent mosquito eradicative measures; yet at times they are an excellent substitute and can often be made of decided importance in opening up new territory, in engineering construction operations, in colonization, in developing agricultural lands in malarial territory, and in naval and military campaigns. A large economic loss is continually going on for the lack of their application.

In districts of relatively high Anopheles prevalence where construction operations or other activities are to be undertaken, laborers or settlers are attracted, and among these people may be sufficient malaria carriers to create conditions favorable to a serious outbreak of malaria. Conditions may or may not be favorable for the control of malaria carriers by means of quinine treatment. In nearly all cases, however, the people will be friendly toward any reasonable action that will reduce or destroy the mosquitoes that annoy them.

Where a large portion of the new arrivals come from nonmalarious territory and mix freely with the malaria carriers in the presence of Anopheles, an emergency situation may arise. In very few similar situations are precautionary operations against Anopheles production undertaken sufficiently far in advance. They certainly were not at the Panama Canal, nor more recently when we located our military cantonments in the most malarious sections of the South.

It is not unusual for the best plans for permanent Anopheles eradicative measures sometimes to fail temporarily and thus create conditions requiring prompt application of auxiliary malaria-control measures. Among such causes might be mentioned the following:

- A reduction of working appropriations.
   A shortage of larvicides.
- (3) A shortage of screen. (4) A shortage of quinine.

(5) A supervising official not in sympathy with antimosquito work.(6) A change of directing officials.

(7) Man-made changes of topography.

(8) Influx of people from highly malarious districts.

(9) An unusual rainy period or season.

(10) Natural changes of topography.(11) Sudden and unforeseen appearance of aquatic plants in quantity in bodies of water; wind-driven flotage on (tidal) fresh-water rivers, such as large rafts of eel grass; stream-borne flotage on lakes or from highlands to rivers affected by tides.

(12) Unexpected reduction of natural mosquito enemies due to unusual season or other causes.

During the construction of the Panama Canal frequent emergency conditions arose or were unnecessarily created which are described in "Mosquito Control in Panama" (4). We can expect similar and also new unexpected conditions and problems to arise with other species of Anopheles, and they must be solved locally by sanitarians. who are detailed to direct Anopheles-control campaigns should consult all sources of information and combine the findings of others with a bountiful supply of common sense in directing malaria-control operations.

The remedy for the emergency situation can often be best determined by a close study of the habits of the local Anopheles, which may vary considerably with different species and in different localities. At Panama the most important of the malaria-carrying Anopheles were the albamanus and tarsimaculata. The latter during the dry season rested in ground cracks in the daytime. By placing small bundles of hay under the houses they were induced to ignore the ground cracks and to collect in the small piles of hay. Members of this species at Gatun did not rest on the wooden beams under occupied houses as our Anopheles quadrimaculatus does. They would collect under certain houses in the daytime but never under certain other houses near the selected ones.

A close study of the problem has shown that a knowledge of the habits common to many Anopheles may be used to advantage by sanitarians in practical malaria control. The following are some of the important points to be kept in mind:

(1) After many species of Anopheles become engarged they rest on the wall or other suitable shaded resting place relatively close to where they obtained their blood meal, and it is not usual for them to fly for

a considerable time after becoming engorged.(2) Those which have digested their blood meal and are ready for flight depart from their daytime resting place (house or inclosure)

either (a) soon after dusk, or (b) soon after daylight.

(3) In the screened building the Anopheles ready to depart collect on the window screens or screen doors during these periods, and, with a little care and practice, practically all of them may be destroyed.

While on the screens they appear to be more interested in escaping from the building than from the person who is destroying them.

(4) The recently engaged Anopheles at rest on the walls of the building are relatively easy to destroy. If they are rather closely spaced, a chloroform bottle or a Griffitts catching tube may be used to advantage for collecting them; but ordinarily the common fly swatter will be found of more practical use.

(5) Light-colored walls make the task an easier one. In relatively dark rooms a flash lamp or other suitable artificial light (not too

bright) is an advantage in obtaining perfect results.

At the farm-tenant homes where the family has insufficient funds to protect themselves from malaria by making the home mosquito proof, it is known that a considerable reduction in malaria transmission can be accomplished by systematically destroying the *Anopheles* that are to be found each morning resting on the walls of the bedrooms. This is effective where no attempt has been made to screen the building.

Most of our malaria in the United States is conveyed by Anopheles This mosquito very rarely bites in the full sunquadrimaculatus. light and does not like bright lights. It is a night feeder, but will at times attack man in houses in the davtime When it bites us at our homes, in most instances it rests on the walls of the room where it took its blood meal and remains there quietly for a day. Occasionally some of them go into an adjacent room. After taking the blood meal this particular mosquito appears to be more sluggish and is not as easily alarmed as are some other kinds of mosquitoes. It is relatively easy to destroy, and children, after a few trials, are soon able to find all mosquitoes resting on the walls. On rough wooden walls the resting Anopheles look like wooden splinters that stand out from the flat surface. It is possible for the children in the farm-tenant homes to learn how to find and destroy every Anopheles in the room, and they enjoy doing it.

If these mosquitoes on the walls are destroyed at a definite hour each morning, then malaria transmission will practically be prevented in that home. There are many localities in which malaria prevalence is of considerable economic importance where eradication of *Anopheles* by dramage may not be undertaken in the near future and where the farm tenants can not screen their homes. In such places this control method can be used to advantage.

Many persons when bothered by pestiferous mosquitoes or when moving into a malarial district are likely to confine their precautions to the use of mosquito lotions and a mosquito bed net. In tents and in dark bedrooms at times we find Anopheles resting on these mosquito bars by preference, and careful observations indicate that a considerable number of persons can be bitten through the cotton mesquito bed-net while asleep and be entirely unaware of the fact the following morning. This may be because the bite of some Anopheles is less painful than that of other more pestiferous mosquitoes.

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Before a person is ready to accept or apply any health-control measure suggested he is likely to want to know what results may be expected from the efforts expended.

During the building of the Panama Canal, Gorgas used the Anopheles-control method above described on a large scale in the native thatch huts, at laborers' barracks, in railroad bunk cars, and in both screened and unscreened residences. The results were highly successful, the accounts of which were published.

In 1908 a temporary laborers' camp, consisting of tents, was established near the site of the present Miraflores Locks and used for four and a half months during the rainy season, when malaria transmission is most frequent. This camp was completely surrounded by extensive untreated Anopheles breeding places. A laborer with a fly swatter and catching tube was employed to destroy all the Anopheles he could find in the tents. Each tent was examined soon after the laborers left each morning. The malaria incidence among the laborers in these tents was thus kept down to 4 per cent per month, or the normal rate at that time for the Canal Zone laborers sleeping in screened buildings at camps where mosquitocontrol work was being done. No attempt was made to screen the tents in this camp, and the laborers were free to go to any other camps after dark. Some of them did go. Their night visits to other localities may have had a relation to the malaria that appeared at this camp. This malaria sick rate was less than 7 per cent of the rate of our troops living in well-screened barracks located 3 miles away. At both places the malaria-conveying species of Anopheles were very numerous.

Another instance of the value of daily destruction of Anopheles in sleeping quarters in the same year was at Diablo Hill, about 3 miles from the city of Panama. United States Marines were stationed in well-screened barracks on the hilltop and had a weekly malaria sick rate of 14 per cent. The camp of the railroad laborers was between this same hill and a prolific Anopheles-producing swamp. A negro boy was engaged less than an hour each morning to destroy all the Anopheles he could find in the bunk cars of this railroad camp. The Anopheles that gained entrance to the soldier's barracks were not destroyed. The malaria sick rate of the United States Marines was 42 times that of these railroad laborers, and the camp of the latter was at the edge of the swamp and the screen doors of the bunk cars were kept propped open by the laborers after dusk.

Again, during the period of relocation of the Panama Railroad, the jungle was being flooded by the slowly rising waters of Gatun Lake, making an excellent breeding area for Anopheles. Very little was done in the matter of controlling the extensive breeding places of Anopheles with which many of these temporary "relocation

camps" were surrounded. The laborers' camps were located close to the water, and native villages were built close to them and contained many malaria carriers. These camps were strung out along a line of about 20 miles of right of way. At these settlements and camps a daily mosquito catch was made. The malaria incidence even under these conditions, by means of daily destruction of engorged Anopheles, was kept as low as the incidence of the Canal Zone as a whole, where mosquito production was under excellent control at many camps. It was even lower than at some of the camps in the hill country where hand catching was not used and where laborers lived in well-screened houses. Moreover, during a period of several months the Anopheles in native houses and in camp cars in the lake region (Panama Railroad relocation) were all taken alive and sent to the laboratory for dissection, and no infected specimen was found—indicating that, for all practical purposes, this daily catch emergency-control method was decidedly effective. Anopheles that were collected in the careful daily catches were caught before they had time to become infected.

Equally good results were obtained during the historic flight of Anopheles at Gatun in 1912, when Anopheles torsimaculata from a hydraulic fill containing blackish water became sufficiently numerous to compel the clerical force to cover cane-scated chairs with blotters and to use paper leggings, held in place by clastic bands, as protective measures.

This control method was also used with considerable success at Carazol and at Miraffores, where more than 1,000 Anopheles were caught in a single night in a small, properly designed, double-flare mosquito trap about 2 feet long and 8 inches high. At one time the weekly catch of Anopheles that gained access to dwellings in the Canal Zone varied from 7.000 to 22,000.

Recently, at a farm home on the coast of Georgia, where the little children of the family were hadly infected with malaria, listless and apparently not used to enjoying hie, great excitement and interest was aroused when a play game was made up to capture the engorged Anopheles resting on the walls of the bedroom and porch. There was lively competition to see who could get the most mosquitoes, and in a short time the children were laughing and thoroughly enjoying the work.

Unquestionably in future years better and more economical methods of *Anopheles* cradication than are now employed will be devised, but in the meantime we can advantageously apply such a method as the one outlined.

It is thought that its practical use and value to our farming population of malarial districts is sufficiently important to cause sanitarians to make it better known and more widely employed.

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Also, LePrince and Orenstein: Mosquito Control in Panama. G. P. Putnam's Sons.

- (5) American Journal of Public Health, vol. 3, No. 2, 1912.
- (6) Ross, Ronald: The Prevention of Malana. Murray Co.
- (7) Griffitts' Catching Tube.

### PUBLIC HEALTH ENGINEERING ABSTRACTS

Progress of the Sewage Disposal Program at Chicago-II. Edward J. Kelly, Chief Engineer, Sanitary District of Chicago. *Engineering News-Record*, Vol. 96, No. 10, March 11, 1926, pp. 395-400. (Abstracted by C. C. Ruchhoft.)

The North Side Plant, which will be completed in 1928, is being built on 100 acres of land west of the North Shore Channel and just north of the Chicago city limits. It was designed to treat the sewage of a tributary population of 800,000, with an estimated average daily flow of 219 gallons per capita.

The plant proper includes grit chambers, preliminary settling tanks, aeration and settling units, the main building, sewage pumping station, and service station The 12 grit chambers are 80 feet long, by 8 feet wide, with a water depth of from 4 to 6.5 feet, and will be cleaned by a 3/4-yard bucket operated from an overhead telpher system. Following the grit chambers there are four bar screens 15 feet wide, with 1-inch openings. Eight reliminary settling tanks follow the screens. Each tank will be 80 feet square, with an average depth of 9 feet, and will have a detention period of about 30 minutes. There are three batteries of aeration and settling tanks. Each battery of tanks consits of 12 circulating type aeration tanks, 10 settling tanks, and an operating gallery. Each aeration tank is 34 feet 9 inches wide, by 420 feet long, and is divided into two compartments by a central wall with aeration plates located on one side of the bottom of each compartment. The aeration rate will be 0.75 cubic foot of air per gallon of sewage, with a 6-hour detention period and a 20 per cent sludge return. The depth of sewage over the diffuser plates will be 15 feet. The settling tanks are 77 feet square, are equipped with Dorr clarifiers, and will have a maximum rate of 16.000 gallons per square foot per day.

The collecting system is designed as a sanitary sewerage system only and will consist of 13.8 miles of sewer, including 3.5 miles of 15-foot sewers. The system will carry up to 50 per cent in excess of the dry weather flow as of 1960.

Buildings.—The pump and blower house will have a ground area of about 303 feet by 183 feet. It will have seven turbo blowers. four of 40,000 cubic feet and three of 30,000 cubic feet of free air per minute capacity. The large blower units will be directly connected to 2,160-horsepower motors, and the smaller units to 1,650-horsepower motors. Five sewage pumps will be installed in this building. pumps, each driven by a 1,000-horsepower motor, will have a capacity of 150 second-feet each under a total head of 44 feet. each driven by a 700-horsepower motor, will have a capacity of 100 second-feet, under a total head of 44 feet. The building will also be equipped with a 34-ton electric crane and a 15-ton monorail hoist. The main building will house general offices, laboratories, storage space, and facilities for the plant operating forces. It will also contain three large venturi meters and four sludge return pumps. A central heating plant, incinerator, machine shop, pipe shop, carpenter shop, and storage space will be provided in the service building.

Construction progress.—The aeration and settling tanks, operating gallery, and influent and effluent conduits were completed in December, 1925, one year ahead of schedule. More than 70 per cent of the entire \$27,433,000 North Side Project is now under contract. The methods employed in construction are described, and several photographs and layouts of portions of the plant are presented.

Method of Excreta Disposal in the Tropics which Entirely Prevents Fly Dissemination. Maj. A. L. Otway, Royal Army Medical Corps. Journal Royal Army Medical Corps, vol. 46, No. 1, January, 1926, pp. 14-22. (Abstracted by Isador W. Mendelsohn.)

The writer describes in detail a type of pit for burying excreta in tropical countries which prevents fly-breeding in the excreta and subsequent dissemination and produces practically no odor or other nuisance. Pails are used for collecting the excreta in privies, and their contents are disposed of in pits which are 18 feet to 20 feet long,  $3\frac{1}{2}$  feet to 4 feet wide, and 10 feet to 12 feet deep, depending on soil and other conditions. The pit is sealed by placing over it bush timber joints covered with plain leaves and beaten earth, called "swish," which is then tarred or treated with heavy oil. A hole is left at one end for the trap and the filling orifice is placed at the other end, and not less than 6 feet to 10 feet from the trap. The whole pit is protected by a thatch or palm-leaf roof and sides supported on bush timber. The area protected extends some 2 feet to 3 feet around the pit.

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The trap consists of a copper gauze cone fashioned like a lamp shade, placed inside of a box, the top of which is covered with copper gauze. The bottom of the box has a hole in it the size of the hole in the pit, and the base of the copper gauze cone is placed over this hole, all the fittings being closely fastened to prevent escape of flies.

This trapped pit is based upon the principles that flies breed from deep pits in which excrement is deposited, and from deep pit latrines, and that such newly developed flies make directly for the nearest point of light to get out and obtain food. This method of excreta disposal was used because neither water carriage of sewage nor incineration was possible.

Traps of the type described have caught 250,000 flies and over in five to six days, assuming that there are 10,000 flies to a pint. Four species of fly were identified: Lucilia caesar (green bottle); Calliphora vomitoria; M. domestica; and Sarcophage.

A Family of Typhoid Carriers. Anna Dean Dulaney. American Journal of Public Health, vol. 15, No. 10, October, 1925, pp. 885-886. (Abstracted by A. S. Bedell.)

Twenty-two cases of typhoid in Columbia, Mo., were traced to a typhoid carrier family. The father had typhoid 26 years previously, the mother 16 years previously, and the daughter-in-law 10 months previously (shortly after marriage). Eight years previously the father, a chronic relapsing carrier, was required to close his dairy following a typhoid outbreak. In June, 1925, the son and his wife took charge of operating their new dairy. Three weeks later the typhoid outbreak among the dairy patrons began. Sanitary conditions were unsatisfactory with regard to location of milk house, privy, and well.

Some Heat Resisting Streptococci Found in Market Milk. H. O. Way. International Association of Dairy and Milk Inspectors Fourteenth Annual Report, October 12, 14, 1925, pp. 179-183. (Abstracted by Malcom Lewis.)

Analysis of bottled Pasteurized milk from three Pasteurizing plants showed the presence of 100,000 to 400,000 bacteria by plate count. Microscopic examination showed large numbers of streptococci occurring usually in pairs and sometimes in chains of four or six. In the raw milk, chains of 6, 8, or 10, and sometimes 14 or 16 cocci occurred. Agar plates showed a predominance of very small "pin point" colonies of two types. One is slightly filiform or elongated; the other nearly round, with a very slight halo. After heating a sample of raw milk counting about 80,000 of these colonies to 142°-145° F. for 72 hours, the count was found to be practically unchanged. These organisms have withstood 162° F. for one hour. Vat samples ran as high as 200,000 to 300,000 colonies after Pasteurization.

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From plant-control samples and a study of methods it was concluded that increase in colonies was due not to growth, but to a breaking up of chains from heat of Pasteurization and pump agitation.

Examination of plants of shippers whose raw milk contained large numbers of these organisms showed as the probable cause, udder or teat infection other than garget in 20 per cent of the cases, and teat cups and rubber tube connections of milking machines in the other 80 per cent. Search for the source of organisms showed cow urine to be free except when contaminated with feces, and that cow feces contained a large number of these organisms.

The presence of large numbers of these organisms in a Pasteurized milk supply suggests an insanitary condition either in the herd or in the milk-handling equipment. Teats may be infected either in the milk canal or on the outside.

### AUTOMOBILE FATALITIES, JANUARY 3 TO MAY 22, 1926

The Department of Commerce announces that reports of automobile fatalities for the four-week period ending May 22 have been received from 79 large cities in the United States. The total number of such fatalities in these cities was 487 as contrasted with 426 for the corresponding four weeks of 1925, and the daily averages for the two four-week periods were 17.4 and 15.2, respectively. The numbers in 14 periods of 4 weeks were as follows:

#### Four weeks ending-

May 22, 1926	487	Jan. 2, 1926	558	Aug. 15,	1925	469
Apr. 24, 1926	424	Dec. 5, 1925	632	July 18,	1925	495
Mar. 27, 1926	350	Nov. 7, 1925	616	June 20,	1925	492
Feb. 27, 1926	378	Oct. 10, 1925	528	May 23,	1925	424
Jan. 30, 1926	434	Sept. 12, 1925	531	,		

Eight cities showed no automobile fatalities for the four weeks ended May 22, 1926, while 11 showed no fatalities for the corresponding period of 1925. New Bedford has a clean sheet for 20 weeks.

For 55 cities in the four-week period, automobile deaths where both the death and the accident occurred within city limits totaled 312, as against a total of 353 for all deaths from automobile accidents regardless of whether the accident occurred within or outside the city limits.

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Automobile fatalities reported during the four weeks ending May 22, 1926
Figures show deaths in each city, regardless of place of accident, and regardless of residence. The figures

[Figures show deaths in each city, regardless of place of accident, and regardless of residence. The figures for 1925 and 1926 are provisional] Automobile fatalities Number Annual rate per 100,000 estimated population City Four weeks Four weeks Calendar endingendingyear Jan. 3 Jan. 3 Corresto May 22, 1026 ponding to May 22 1926 period. May 22, May 23, 1926 1925 May 22. May 23 1925 1094 1925 2, 074 1, 879 Total (79 cities) 426 19.9 18.6 16.8 16.2 19.8 19.5 144 409 10 32.9 11.1 21.9 16.9 25. 1 23.9 9. 9 13. 3 15. 1 15. 7 18. 7 22. 6 21. 7 14. 9 33. 5 40 19.6 12. 9 17. 9 25. 9 12. 3 21. 1 24. 4 18. 5 22. 5 2  $\overline{21}$ 12.7 10.0 17.0 10.9 37 Boston 67 Buffalo Cambridge 14 44 18. 9 30. 6 27. 8 19. 9 i õ 13. ô 59. 7 11. 9 17. 1 12. 7 23. 1 13. 7 32. 6 0 1 49 10 Camden 16 10 0 31.8 23.7 18.0 22.8 13.7 12.8 30.0 20.6 13.7 10.7 20.0 18.5 21.0 16.9 33.7 23.4 19.5 27.7 Canton.... Chicago Cincianati Cleveland Columbus 21. 3 31. 8 23. 7 37. 3  $4\hat{0}$ 211 36 30. 6 24. 3 24. 6 25. 2 17. 3 13. 3 13. 2 23. 7 21. 4 17 8 2 2 2 69 14 23 14 15 Dallas Dayton 13. 5 15. 1 9. 3 53 22. 1 13. 7 11.5 3.5 17.6 9.0 Denver Des Moines 6 99 8 ñ õ 0 0 Detroit. Duluth. 22. 2 11. 5 25.1  $2\dot{4}$ 22 11.8 2 30. 0 13. 1 18. 3 14. 8 20. 1 El Paso Fall River 21, 5 10, 0 11, 4 19, 7 13, 4 22, 0 4, 5 13, 9 12, 6 10, 0 ō õ 24. 8 33. 1 13. 9 9. 8 11. 4 18. 3 15. 9 31. 2 17. 3 13. 2 18. 9 21. 4 7. 4 29. 9 10.0 Fall River
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Automobile fatalities reported during the four weeks ending May 22, 1926— Continued

[Figures show deaths in each city, regardless of place of accident, and regardless of residence.	The figures
for 1925 and 1926 are provisional]	_

	Automobile fatalities									
City		Number		Annual rate per 100,000 estimated population						
	Four weeks ending—		Jan. 3	Four weeks ending—		Jan. 3	Corres- ponding	Caler ye		
	Мау 22, 1926	Мау23, 1925	May 22,	Мау 22, 1926	May 23, 1925	May 22,	period, 1925	1925	1924	
Partial data for 12 cities										
Akron Atlanta. Bridgeport. Erie. Houston. Los Angeles Lowell New Bedford Oklahoma City Portland, Oreg. Seattle. Waterbury	1 5 3 14 3 0	3 1 0 1 7 0 0 1 1 2 1	11 22 5 7 13 88 4 0 13 14 17	000000000000	(1)(1)(2) ^{7,7} ,000(1)4,(1)(1)	000000000000	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	(·) (·) (·) (·) (·) (·) (·) (·) (·) (·)	(1) (1) (1) (1) (1) (1) 20.8 (1) (1) (1) (1) (1)	

¹ Rates are omitted, pending the establishment of more satisfactory estimates of population.

#### DEATH RATES IN A GROUP OF INSURED PERSONS

#### RATES FOR PRINCIPAL CAUSES OF DEATH FOR APRIL, 1926

The accompanying table is taken from the Statistical Bulletin for May, 1926, published by the Metropolitan Life Insurance Co., and presents the mortality experience of the industrial insurance department of the company for April, 1926, as compared with March, 1926, and with April and year, 1925. The rates are based on a strength of approximately 17,000,000 insured persons in the industrial populations of the United States and Canada.

The death rate for April (12.0 per 1,000 industrial policyholders) is substantially the same as that for March (12.1). It failed to show the usual seasonal decline. This high rate is attributed to continued increased mortality from influenza and pneumonia, these two diseases accounting for one-fourth of the total number of deaths. The influenza death rate (91.3 per 100,000) was more than double last year's figure, while pneumonia mortality increased approximately 40 per cent as compared with April a year ago. It is stated that the peak of the influenza and pneumonia death rates had been passed by the latter part of April.

Unusually high mortality from measles continued, the April death rate for the disease (21.3 per 100,000) closely approached that for March (21.5), which was the highest rate for this cause in the records of the company.

Whooping cough shows a higher death rate in April (15.4) than in March (13.6), and 71 per cent increase over the rate for April, 1925 (9).

The death rate for scarlet fever was low in April, showing little change from last year's figure; while diphtheria shows a small decline from the rate for March and a marked reduction as compared with April of last year.

The tuberculosis death rate (114.9 per 100,000) was practically the same as the rate for March, but was considerably higher than that for April, 1925. At the end of April the cumulative death rate for tuberculosis among this group of persons was substantially the same as that for last year.

The "degenerative" diseases (cerebral hemorrhage, Bright's disease, and organic heart disease) each recorded higher rates than for April, 1925. This increase is stated to be largely a reflex of this year's influenza outbreak.

The rate for puerperal diseases showed an improvement in April over the same month of last year, as has been the case for the other months so far this year. This is noted as being unusual in view of the above-average prevalence of influenza.

Death rates (annual basis) for principal causes per 100,000 lives exposed, March and April, 1926, and April and year, 1925

Industrial of	department.	Metropolitan	Life	Insurance	Co.]
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-	Rate	per 100,00	0 lives exp	osed t
Cause of death	April, 1926	March, 1926	April, 1925	Year 1925
Total, all causes	1, 199. 4	1, 210. 6	1,034.3	906.1
Pyphoid fever.  Measles Scarlet fever Whooping cough Diphtheria Aditiona Tuberculosis (all forms). Tuberculosis (all forms). Tuberculosis of respiratory system. Jancer. Diabetes mellitus. Jancer. Diabetes mellitus. Jancer. Diabetes mellitus. Jancer. Diabetes mellitus. Jancer. Diabetes mellitus. Jancer. Diabetes mellitus. Jancer. Diabetes mellitus. Jancer. Diabetes mellitus. Jancer. Diabetes mellitus. Jancer. Diabetes mellitus. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer. Jancer.	21. 3 5. 1 15. 4 9. 0 91. 3 99. 5 77. 1 20. 1 61. 3 191. 0 19. 6 17. 9 7. 6 7. 6	2.4 21.5 4.4 13.6 9.2 76.1 115.2 100.4 77.1 21.6 68.4 174.3 194.0 18.8 16.8 17.4 7.0 6.5 55.7	2.0 4.6 4.9 0.0 13.1 45.4 94.0 77.4 16.4 17.2 17.3 77.6 19.3 7.3 7.3 85.4	4. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.

All figures include infants insured under 1 year of age.
 Based on provisional estimates of lives exposed to risk in 1925.

#### DEATHS DURING WEEK ENDED JUNE 5, 1926

Summary of information received by telegraph from industrial insurance companies for week ended June 5, 1926, and corresponding week of 1925. (From the Weekly Health Index June 8, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week ended June 5, 1926	Corresponding week 1925
Policies in force	64, 661, 646	60, 135, 708
Number of death claims	10, 445	10, 774
Death claims per 1,000 policies in force, annual rate-	8. 4	9. 3

Deaths from all causes in certain large cities of the United States during the week ended June 5, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, June 8, 1926, issued by the Bureau of the Census, Department of Commerce)

		led June 5, 126	Annual death	Deaths ye	Infant mortality	
City	Total deaths	Death rate 1	rate per 1,000 cor- respond- ing week, 1925	Week ended June 5, 1926	Corresponding week, 1925	rate, week ended June 5, 1926 ²
Total (65 cities)	6, 816	12.3	14. 2	738	973	³ 61
Akron Albany 4 Atlanta White Colored Baltimore 4 White Colored Birmingham White Colored Boston Bridgeport Buffale Cambridge Camton Canton Chicago 4 Cincinnati Cleveland	39 24 70 36 34 215 108 47 87 36 51 1199 29 156 28 31 28 31 28 633 137 182	(5) 13. 9 (7) 21. 5 13. 2 15. 0 12. 0 12. 3 13. 3 10. 8 17. 4 9. 9	12.8 15.4 16.0 15.5 17.3 12.2 13.4 10.3 12.6 17.3 15.1	5 2 6 3 3 19 14 5 13 4 9 24 3 25 3 0 4 72 16 6 2 2	3 2 12 20 20 10 41 2 35 6 5 1 81 7	53 42 
Columbus Dallas White Colored Dayton Denver Des Moines Detroit Duluth El Paso Erie Fall River 4	68 45 38 7 57 79 30 291 29 53 32	12. 4 11. 7 (0) 16. 8 14. 5 10. 7 11. 8 13. 4 25. 4	17. 1 12. 7 	22 6 2 2 0 4 7 2 41 20 8 6	10 12 	55 
Filint Fort Worth White Colored Grand Rapids Houston White Colored Indianapolis White Colored Indianapolis White Colored	23 28 24 4 32 66 46 20 102 86	(5) 10. 7	13. 2	6 5 4 4 0 5 13 7 0 11 7	5 7	87 83 

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.

³ Data for 63 cities.

⁴ Deaths for week ended Friday, June 4, 1926.

⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31, Baltimore 15, Birmigham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended June 5, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, June 8, 1926, issued by the Bureau of the Census, Department of Commerce)—Continued

	Week end 19	ed June 5, 26	Annual death	Deaths ye	Infant mortality	
City	Total deaths	Death rate	rate per 1,000 cor- respond- ing week, 1925	Week ended June 5, 1926	Corre- sponding week, 1925	rate, week ended June 5, 1926
Jersey City	59 28	9. 7	14. 2 11. 7	11	10	78
Jersey City Kansas City, Kans	28 17	12, 5	11.7	1 0	3	17
White	lii	(5)		ĭ		131
Kansas City, Mo	94	`13. 1	13. 2	9	4	
Witte. Golored. Kansas City, Mo Los Angeles. Louisyille.	203	15.3	16.4	18 7	41	50 60
White	91 65	10.0	10. 4	6		60
White	26	(5)		1	3	63
Lowell	31 16	8.0	11.2	1	3	19 25
Lynn Mcuphis	47	13.8	20. 6	5	14	
White. Colored. Milwaukee. Minnespolis	47 21 26 102	1		1		
Colored	109	(5) 10.3 10.0	11.7	4 17	27	79
Minneapolis	83	10.0	12,5	14	8 5	78
Nashville 1	83 40 24	15.2	14.9	8	5	
White	24 16	(5)		5 3		
Now Bedford	42	(6)		11	5	191
Colored New Bedford New Haven	46	13.2	20. 4	6	4	82
New Orleans.	127 66	15 8	19.6	6 2	24	
White Colored	61	(5)		4		
New York	1,347	11.9	14.2	141	200	57
Duana Davanah	167	9.7	10.8	11	15	30
Brooklyn Borough Manahattan Borough	455 584	10.6 16.2	13.3 18.4	11 48 69	81 85	76
Queens Borough	104	7.1	9.3	10	16	45
Queens Borough Richmond Borough Newark, N. J	37 81 37	13. 5	14.3	3 3 0	3	49 76 45 53 38 56
Newark, N. J Norfolk	37	9.2 11.1	14. 1 9. 6	3	22	56
`X'hito	17			ŏ		. 6
Colored Oakland Oklahorna City	17 20 40 19	(5) 8.0		3 5		149
Oklahoma City	19	8.0	9.6	0	8 3	00
Omaha	48 43	11.6	9.4	8	6 9	84
Paterson	43 464	15.7	14. 7 13. 3	4 39		55
Philadelphia Pittsburgh Portland, Oreg Providence	162	12. 0 13. 3	18.0	14	54 25	47
Portland, Oreg	1 59	<b>!</b>		5	25	42
Providence	71 49	13. 5 13. 5	14.0 17.9	9	6 4	70
White Colored	31	1	11.0	5 9 2 2 0 9	*	71 25 31
Colored	18	(5) 13. 8		0		7
Rochester St. Louis	85	13.8	11.5	9	3 15	72
St. Paul	85 184 54 28 51	1 11 4	13. 3 12. 1	1	10	1
St. Paul Salt Lake City 4 San Antonio San Diego.	28	11. 0 13. 0 20. 9		1 3	2	1 4
San Antonio	51	13.0	14. 2 16. 2 14. 3	14	16	
San Francisco	144	13. 2	14.3	8	6	4
Schenectady	17 64	9.5	14.6	5	4	14
Seattle	64	10.4	16. 8	3	5	2
Spokane	20 35	16.7	12.9	5	3	112
Somerville Spokane Springfield, Mass Syracuse	.1 36	16.7 12.9	14 3	14 3 8 5 3 3 5 1 6 4 4 2 2	5 5 3 6 4 2	14
Tacoma.	47 24	13.3 11.8	10.3 13.5 16.3	6	4	7
Toledo	. 60	10.6	16.3	1 4	12	30
Trenton. Washington, D. C.	. 40	15.6	16.6	2	12	3
Wasnington, D. C.	146	14.4	20.0			6
White Colored	90	(8)		1 8		100
Waterbury Wilmington, Del Worcester	14	1		. ¥	ī	8
Wilmington, Del	80 66 14 32 48 27	13.5 13.0 12.1	12.4 13.7 11.9 11.7	6 4 1 5	6 4 4 3	65 44 14 22 77 11: 19 33 36 66 50 88 22 25 97
					. 4	
Yonkers Youngstown	97	12.1	11 0	i a	1 7	1 8

## PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

### UNITED STATES

#### CURRENT WEEKLY STATE REPORTS

These reports are preliminary and the figures are subject to change when later returns are received by the State health officers

#### Reports for Week Ended June 12, 1926

ALABAMA	_	ARKANSAS-continued	_
	Cases		Cases
Cerebrospinal meningitus		Mumps	
Chicken pox		Pellagra	
Diphtheria		Scarlet fever	
Influenza		Smallpox	. 8
Lethargic encephalitis		Trachoma-	
Malaria		Tuberculosis	
Measles	308	Typhoid fever	
Mumps	. 10	Whooping cough	. 33
Pellagra		CALIFORNIA	
Pneumonia	. 37		
Scarlet fever	. 4	Cerebrospinal meningitis:	
Smallpox	. 37	Los Angeles	
Tetanus	. 1	Stanislaus County	. 1
Trachoma	. 1	Chicken pox	
Tuberculosis	. 37	Diphtheria	
Typhoid fever	. 15	Influenza	
Typhus fever	. 3	Measles	
Whooping cough	41	Mumps	229
		Poliomyelitis:	
ARIZONA Chicken pox	. 5	Pasadena	
Measles.		Santa Barbara County	
Mumps	_	Scarlet fever	135
Pneumonia	_	Smallpox	
Scarlet fever		Typhoid fever	. 10
		Whooping cough	67
Tuberculosis		COLORADO	
Tuberculous meningitis		Chicken pox	. 38
Typhoid fever		Diphtheria	
Whooping cough	. 5	Induenza	
arkansas		Measles	
Cerebrospinal meningitis	. 1	Mumps	
Chicken pox.		Poliomyelitis	
Diphtheria		Scarlet fever	
Influenza			
Malaria		Tuberculosis	
		Typhoid fever	
Measles		Whooping cough	. 38
	(12	35)	

Connecticut	<b>~</b>	IDAHO	<b>^</b>
Combination of the Combination	Cases	Chishan	Case
Cerebrospinal meningitis		Chicken pox	
Chicken pox		Diphtheria	
Diphtheria		Measles	10
German measles Influenza		Mumps	
		Scarlet fever	
Measles		Smallpox	
Mumps Pneumonia (broncho)		Typhoid fever	
Pneumonia (lobar)		Whooping cough	14
Scarlet fever		ILLINOIS	
Smallpox		Cerebrospinal meningitis-Cook County	
Tuberculosis (pulmonary)			
Typhoid fever		Chicken pox	
Whooping cough		Influenza	
woodyng conduction		Lethargic encephalitis:	0,
DELLWIRE		Cook County	,
Measles	31	Macon County	,
Scarlet fever		Measles	1 20
Tuber culosis.		Mumps	77
Whooping cough	. 3	Pneumonia.	218
		Scarlet fever	250
DISTRICT OF COLUMBIA		Smallpox	37
Chicken pcx	26	Tuberculosis	
Diphtheria		Typhoid fever	16
Innuenza		Whooping cough	
Measles			
Pneumonia	20	Chicken poy	57
Scarlet fever		Chicken por Diphtheria	14
Smallpox		Influenza	
Tuberculosis	21	Measles	419
Typlioid fever	1	Pneumonia	211
Whooping cough		Poliomyelitis	ĵ
		Scarlet fever	90
FLORIDA		Smallpox	54
Chicken pox	21	Tuberculosis	56
Dengue.	1	Typhoid fever	7
Diphtheria	7	Whooping cough	80
Influenza	3	Barnan	
Malaria	6	Chicken pox	53
Measles	42	Diphtheria	5
Mumps	11	German measles	4
Pneumonia. Searlet fever.	· 4	Influenza	35
Smallpox	64	Leprosy	1
Tuberculosis	2	Lethargic encephalitis	1
Typhoid fever.	16	Measles	294
Whooping cough	15	Mumps	8
	10	Pellagra	1
GEORGIA		Pneumonia	81
Chicken pox	15	Scarlet fever	35
Diphtheria	6	Smallpox	7
Dysentery	55	Tuberculosis.	24
Hookworm disease	6	Typhoid fever	4
Influenza	8	Whooping cough	166
Malaria	44	LOUISIANA	
Measles	78	Diphtheria	8
Mumps	9	Influenza	30
Pellagra		Malaria	11
Pneumonia	23	Pellagra	9
Scarlet lever.	1	Pneumonia	14
Septic sore throat	6	Scarlet fever	11
Smallpox Tuberculosis	23 22	Smallpox	31
Trahaid favor	36	Tuberculosis	60
Typhoid fever	30	Typhoid fever	20
11 MANATARD CORPUTATIONS AND CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE	54	Whooping cough	R

MAINE	1	MINNESOTA	
	Cases		Cases
Chicken pox		Chicken pox	
Diphtheria		Diphtheria	
German measles		Influenza. Bleasles	
Influenza Measles		Pneumorua	
Mumps		Scarlet fever	. 211
Paratyphoid fever		Smallpox	
Pneumonia		Tuberculosis	
Scarlet fever		Typhoid fever	
Tuberculosis	. 2	Whooping cough	. 31
Tuberculous meningit:s	. 1	MISSISSIPPI	_
Typhoid fever		Diphtheria Poliomyelitis	
Whooping cough	_ 18	Scarlet fever	
MARYLAND 1		Smallpox	
Cerebrospinal meningitis	. 1	Typhoid fever	
Chicken pox		MISSOURI	
Diphtheria		(Exclusive of Kansas City)	
Dysentery			. 14
German measles	_ 5	Chicken pox Diphtheria	-
Influenza	_ 5	Influenza	
Measles		Maiaria	
Mumps		Mensles	462
Pneumonia (broncho)		Mumps	
Pneumonia (lobar)		Or htt.almia neonatorum	
Scarlet fever		Scorlet lever	
Septic sore throat Tetanus		Smallpox   Trechoma	
Tuberculosis		Tuberculesis	
Typhoid fever		Typhoid inver.	
Whooping cough	_ 58	Whooping cough.	_ 68
MASGACHUSETTS		MONTANA	
		Cerebrospinal moningitis	_ 2
Cerebrospinal meningitis		Chicken pox	
Chicken pox		Diphtheria	
Conjunctivitis (suppurative)		German measles	
DiphtheriaGerman measles		Mumps	
Influenza		Rocky Mountain spotted fever:	
Lethargic encephalitis		Beebe	. 1
Malaria		St. Xavier	_ 1
Measles		Winston	
Mumps		Scarlet fever	
Ophthalmia neonatorum		Smallpox	
Pellagra		Tuberculosis Typhoid fever	
Pneumonia (lobar)		Whooping cough	-
Poliomyelitis		NEBRASKA	
Scarlet fever		Chicken pox.	_ 25
Trichinosis	. 1	Diphtheria	
Tuberculosis (pulmonary)		Influenza	
Tuberculosis (other forms)	_ 48	Lethargic encephalitis	
Typhoid fever		Measles	
Whooping cough	214	Mumps	
MICHIGAN		Smallpox	
Diphtheria	. 102	Tuberculosis.	
Measles		Whooping cough	_ 16
Pneumonia		NEW JERSEY	
Scarlet fever		Cerebrospinal meningitis	_ 2
Smallpox	4	Chicken pox	
Tuberculosis	48	Diphtheria	
Typhoid fever	9	Influenza	
Whooping cough	170	1 Maiaria	. 1
Week ended Friday.			•

NEW JERSEY-continued	_	OKLAHOMA—continued	~
	Cases	7 11 11	Cases
Mcasles	889 97	Poliomyelitis	3 15
Pneumonia		Smallpox	
Searlet fever		Typhoid fever	
TrachomaTyphoid fever		Whooping cough	
Whooping cough			02
		OREGON	
NEW MEXICO		Cerebrospinal meningitis	2
Cerebrospinal meningitis		Chicken Lox	41 20
Chicken pox		DiphtheriaInfluenza	
Diphtheria		Mcasles	78
German measles	_	Mumps	21
Measles.		Pneumonia	
Mumps.		Rocky Mountain spotted fever	
Pneumonia	-	Scarlet fever	
Poliomyelitis		Septic sore throat	
Scarlet fever		Smallpox:	٠
Smallpox		Portland	13
Tuberculosis		Scattering	
Typhoid fever	4 23	Tuberculosis	
Whooping cough	20	Typhoid fever	
NEW YORK		Whooping cough.	
(Exclusive of New York City)		PENNSYLVANIA	
Cerebrospinal meningitis	1	Anthrax—Philadelphia	1
Chicken pox	221	Cerebrospinal meningitis—Pittsburgh	
Diphtheria	70	Chicken pox.	
German measles	513	Diphtheria	
Influenza	140	German measles	
Malaria	3	Impetigo contagiosa	
Measles	2, 450	Lethargic encephalitis—Philadelphia	ī
Mumps	137	Measles.	
Ophthalmia neonatorum	1	Mumps	
Pneumonia	238	Pneumonia	71
Poliomyelitis	2	Poliomyelitis—Columbus township 8	
Scarlet fever	183	Puerperal fever—Philadelphia	1
Smallpox	5	Scables	1
Tetanus	1	Scarlet fever	479
Typhoid fever		Trachoma:	
Vincent's angina		Philadelphia	
Whooping cough	282	Sharpsburg	
NORTH CAROLINA		Tuberculosis	
Cerebrospinal meningitis	2	Typhoid fever	
Chicken pox		Whooping cough	450
Diphtheria		RHODE ISLAND	
German measles		Diphtheria German measles	
Measles.	290	Influenza	
Poliomyelitis	. 3	Measles	
Scarlet fever		Mumps	2
Smallpox		Scarlot fever	4
Typhoid fever		Tuberculosis	
Whooping cough	251	Whooping cough	
OKLAHOMA		SOUTH DAKOTA	J
(Exclusive of Oklahoma City and Tulse	٠,	Chicken pox	8
		Diphtheria	1
Chicken pox		Influenza	
Diphtheria		Measles	18
Influenza		Mumps	11
Malaria		Pneumonia	1
Measles		Scarlet fever	
Mumps		Smallpox	2
Pollagra		Tuberculosis	2
Pneumonia	. 11		<b>\$8</b>
² Deaths.		3 County not specified.	

Tennessee		WASHINGTON—continued	
	Cases		Cases
Cerebrospinal meningitis—Nashville		German measles	
Chicken pox		Measles	
Diphtheria		Mumps	
Dysentery		Poliomyelitis—Lincoln County	
Hookworm disease		Scarlet fever	
Influenza		Smallpox	. 31
Malaria		Tuberculosis	. 9
Measles		Typhoid fever	. 6
Mumps		Whooping cough	. 50
Ophthalmia neonatorum		Chicken por	37
Pellagra		Chicken pox Diphtheria	9
Pneumonia		Influenza	7
Scarlet fever		Measles	457
Smallpox		Poliomyelitis	
Trachoma		Scarlet fever	
Tuberculosis		Smallpox	. 2
Typhoid fever		Tuberculosis	30
Whooping cough	- 30	Typhoid fever	. 5
Chistren non		Whooping cough	42
Chicken por		WISCONSIN	
Diphtheria	. 8 . 12	Milwaukee:	_
Influenza	. 12	Cerebrospinal meningitis	1
Measles.		Chicken pox Diphtheria	79 19
Mumps.		German measles	19
Pellagra		Influenza	3
Pneumonia	. 5	Measles	
Scarlet fever		Mumps	28
Smallpox		Pneumonia	22
Tuberculosis		Scarlet fever	14
Typhoid fever	. 4	Tuberculosis	16
Typhus fever	. 1	Whooping cough	61
Whooping cough	. 23	Scattering:	
Chisken ner	00	Cerebrospinal meningitis	1
Chicken pox		Chicken pox	89
German measles	. 11	Diphtheria German measles	12
Measles		Influenza	- 86 - 9
Mumps		Measles	1.188
Pneumonia		Mumps	
Scarlet fever		Pneumonia	
Smallpor	. 1	Scarlet fever	62
Tuberculosis.	. 1	Tuberculesis	20
Typhoid fever		Wheoping cough	84
Wheoping cough	107	WYOMING	
VERMONT		Ohieken pox	15
Chicken pex		Diphtheria	
Measles		German measles	2
Mumps		Measles	15
Scarlet fever		Mumps	4
Whooping cough	4	Rocky Mounain spotted fever:	o
VIRGINIA		Campbell County  Johnson County	2
Smallpox	. 5	Park County	
Washington		Sheridan County	5
Cerebrospinal meningitis—Spokane	. 3	Scarlet fever	9
Chicken pox	91	Smallpox	ĭ
Diphtheria	17	Whooping cough	. 6
Report for W	eek E	nded June 5, 1926	
NORTH DAKOTA	Cases	NORTH DAKOTA—continued	<b></b>
Chicken pox	Cases 16		Cases
Diphtheria.		Pneumonia	1
German measles	31	Scarlet fever	
Influenza	2	Simalipox	7
	4	A/ADC/OLIOSIS	1
Measles	10	Whoming couch	~~
Measles Mumps	18	Whooping cough	. 29

#### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Cerc- bro- spinal menin- gîtis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pella- gra	Polio- mye- litis	Scarlet fever	Small pox	Ty- phoid fever
April, 1926 Hawaii Territory May, 1926	9	22	731		32		0	0	0	0
Arizona	1 5 2 0	9 84 46 3	160 40 68 0	<u>i</u>	2, 293 3, 126 219		0 0 0 1	37 348 484 31	10 0 257 0	27 12 14 0

## Number of Cases of Certain Communicable Diseases Reported for the Month of April, 1926, by State Health Officers

State		,		,					,	
Arkansas	State	en			Mumps	let		culo-	phoid	ing
Arkansas	Alahama		30	904	352	63	175	335	34	199
Arkansas	Arizona	37								
California	Arbangas	192				27				
Colorado	California								100	
Connecticut	Colorado								122	285
Delaware   12   10   289   1   39   0   144   1   12   12   12   10   289   1   39   0   144   1   1   12   12   10   15   10   14   1   1   12   10   15   10   14   1   1   12   10   15   10   10   10   10   10   10	Connections								9	
Florida	Delement			2, 700						
Florida	District of Columbia			9 204	1 1					
Georgia   197   37   587   267   33   115   102   16   111   1daho   63   14   150   118   74   51   7   19   263   111   101   263   111   105   118   74   51   7   7   19   263   111   101   263   111   106   264   240   14   604   1078   263   261   122   6,892   17   947   445   240   14   604   1078   263   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   240   24	Planta									
Idaho	Conda					30				
Illinois	Yack							102		
Indiana	Till sie			100				1		
Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town   Town	THIRDIS.			4, 299		1,507		1,755		
Kansasa	indiana	301	122	6,892	17	947	440	240	14	604
Kentucky 1         Louisiana         71         31         93         70         98         105         1 166         48         45           Maine         74         11         1,342         207         86         0         38         18         15           Maryland         357         89         2,609         945         207         0         390         30         255           Massachusetts         440         228         3,776         471         1,103         4         773         23         1,376           Michigan         484         303         6,532         200         1,401         28         493         18         811           Michigan         484         303         6,532         200         1,434         20         204         14         179           Michigan         700         66         1,942         1,665         37         106         361         59         1,609           Missouri         73         220         3,799         63         1,007         38         144         21         309           Montana         98         8         201         71         175         <	TOM8 x			2-22-					l	
Louisiana	Kansas	349	66	2,704	179	269	50	180	9	592
Maine         74         11         1,342         207         86         0         38         18         18           Maryland         357         89         2,609         945         207         86         0         38         18         18         18           Massachusetts         440         228         3,776         471         1,103         4         773         23         1,376           Michigan         484         303         6,532         200         1,401         28         403         18         811           Minesota         538         272         2,889         -1,434         20         204         14         170         204         14         170         204         14         170         204         14         20         204         14         20         204         14         170         204         14         170         204         14         170         204         14         20         204         14         170         204         14         170         20         14         170         20         20         171         175         28         63         0         52         20	Kentucky									
Massachulsetts	Louisiana								48	45
Massachulsetts	Maine	74	11	1,342	207					156
Massachulsetts	Maryland		89	2,609			. 0		30	
Michigan         484         303         6,582         200         1,401         28         493         18         81         11           Minnesota         538         272         2,389         1,434         20         204         14         170           Mississippl         1,000         66         1,942         1,665         37         106         361         59         1,669           Moscourt         73         220         3,799         63         1,077         38         144         21         309           Morbaska         2         201         71         1,752         28         63         0         52           Nebraska         2         201         71         1,752         28         63         0         52           New Hampshire         3         201         71         1,772         28         346         34         346         34         34         344         344         344         34         34         344         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34	Massachusetts			3,776	471	1, 103		773	23	
Minesota   538   272   2, 389   1,434   20   244   14   175   175   106   361   59   1,600   Missisppi   1,000   66   1,942   1,665   37   106   361   59   1,600   Missouri   73   220   3,799   63   1,007   38   144   21   309   Montana   98   8   201   71   175   28   63   0   52   Nebraska   2   Nebraska   2   Nebraska   2   Nebraska   2   Nebraska   2   New Ada   4   New Hampshire   New Hampshire   New Hampshire   717   259   9,914   800   1   477   28   346   North Carolina   561   81   1,666   1,660   1,702   14   1,702   71   2,008   North Carolina   561   81   1,666   1,660   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000	Michigan	484	303		200	1,401	28	493	18	811
Mississippi         1,000         66         1,942         1,665         37         106         361         59         1,665           Missouri         78         220         3,799         63         1,007         38         144         21         309           Montana         98         8         201         71         1,75         28         63         0         52           Nevadas*         Nevadas*         New Hampshire*         New Hampshire*         New Mexico*         1, 194         959         15,052         858         1,792         14         1,702         71         2,088           North Carolina         561         31         1,166         106         152         13         328           North Dakota         45         38         0,14         131         385         12         14         12         63           Oklahoma*         100         50         204         32         1,56         128         98         28         182           Oregon         198         88         332         242         255         99         61         11         198           South Oa	Minnesota	538	272	2,389		1, 434	20	264		179
Mfssouri         73         220         3,799         63         1,007         38         144         21         369           Montana         98         8         201         71         175         28         63         0         52           Nebraska **	Mississippi	1,000	66	1,942	1,665	37	106		59	1.669
Montana   98   8   201   71   175   28   63   0   52     Nebraska   2   2   2   2   2   2   2   2   2	Missouri							144		
Nebraska   New Hampshire   New Hampshire   New Hampshire   New Hampshire   New Hampshire   New Hampshire   New Hampshire   New Mexico   New Mexico   New Mexico   New Mexico   New Morth   New Mexico   New Mexico   New Morth   New Mexico   New Mexico   New Morth   New Mexico   New Morth   New Mexico   New Morth   New Mexico   New Mexico   New Mexico   New Mexico   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth   New Morth	Montana	98								
New Hampshire '	Nebraska 2				L				"	02
New Jersey. 717 259 9, 914 800 1 477 28 346 New Merico 2 1, 194 959 15, 052 858 1,792 14 1,702 71 2,088 North Carolina. 561 81 1, 186 12 106 152 11 12 20 88 North Carolina. 667 370 11, 250 289 1,419 255 663 21 1, 452 Oregon. 198 88 332 242 225 99 61 11 198 Pennsylvania 2 156 128 98 28 182 Oregon. 198 88 332 242 225 99 61 11 198 Pennsylvania 3 10 5 20 11 11 198 Pennsylvania 3 10 13 10 10 246 32 156 10 10 10 10 10 10 10 10 10 10 10 10 10	Nevada 4									
New Jersey. 717 259 9, 914 800 1 477 28 346 New Merico 2 1, 194 959 15, 052 858 1,792 14 1,702 71 2,088 North Carolina. 561 81 1, 186 12 106 152 11 12 20 88 North Carolina. 667 370 11, 250 289 1,419 255 663 21 1, 452 Oregon. 198 88 332 242 225 99 61 11 198 Pennsylvania 2 156 128 98 28 182 Oregon. 198 88 332 242 225 99 61 11 198 Pennsylvania 3 10 5 20 11 11 198 Pennsylvania 3 10 13 10 10 246 32 156 10 10 10 10 10 10 10 10 10 10 10 10 10	New Hampshire									
New Mexico 1 1, 194 959 15, 052 858 1, 792 14 1, 702 71 2, 086 North Carolina 561 81 1, 166 106 152 12 14 12 63 Otho.  North Dakota 45 38 014 131 385 12 14 12 63 Otho.  Oklahoma 1 100 50 264 32 156 128 98 28 182 Oregon 198 88 332 242 225 99 61 11 198 Pennsylvania 2 23 18 802 17 35 0 9 61 11 198 Pennsylvania 3 35 107 139 21 31 106 246 32 454 South Dakota. 79 22 249 254 518 29 17 6 38 South Dakota. 79 22 249 254 518 29 17 6 38 South Dakota. 79 22 249 254 518 29 17 6 38 Pennessee. 202 55 1, 705 79 165 91 225 25 150 Texas 3 Ush 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	New Jersey	717	259	9, 914	1	800	1	477	20	240
New York	New Mexico 2	1		1 -,		1	-	1		040
North Carolina	New York	1 194	959	15 052	959	1 792	14	1 702	71	2 000
North Dakota	North Carolina				000			1, 102		
Ohio.         667         370         11, 250         289         1,419         263         663         21         1,450           Oklahoma **         100         50         264*         32         156         128         98         21         1,450           Oregon.         198         88         332         242         225         99         61         11         198           Pennsylvania **         1         88         332         242         225         99         61         11         198           Rhode Island.         28         18         802         17         35         0         54         3         87           South Oarolina.         358         107         139         21         31         106         246         32         454           South Dakota.         79         22         249         254         518         29         17         6         38         7         7         6         38         7         7         125         25         150         150         7         7         165         91         225         25         150         150         189         100         189	North Dakota				191					
Öklahoma ¹ 160         50         264         32         156         128         98         28         182           Oregon         198         88         332         242         225         99         61         11         198           Pennsylvania ¹ 28         18         802         17         35         0         54         3         8           Rhode Island         28         18         802         17         35         0         54         3         8           South Carolina         358         107         139         21         31         106         246         32         454           South Dakota         79         22         249         254         518         29         17         6         38           Tennessee         202         55         1,705         79         165         91         225         25         150           Texas ¹ Utah ² 202         3,786         342         61         172         0         189           Vermont         89         9         107         76         38         0         123         0	Ohio			11 250			252			1 (50
Oregon         198         88         332         242         225         99         61         11         198           Pennsylvania 1         28         18         802         17         33         0         54         3         87           South Carolina         358         107         139         21         31         106         246         32         454           South Dakota         79         22         249         254         518         29         17         6         38           Tennessee         202         55         1,705         79         165         91         225         25         150           Utah 1         2         202         55         1,705         79         165         91         225         25         150           Utah 2         2         202         55         1,705         79         165         91         225         25         150           Utah 3         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2	Oklahoma i								21	
Pennsylvania ¹         X         As           Rhode Island         23         18         802         17         35         0         54         3         87           South Oarolina         358         107         139         21         31         106         246         32         454           South Dakota         79         22         249         254         518         29         17         6         38           Tennessee         202         25         15         79         165         91         225         25         150           Tenas ³         Utah ²         Vermont         89         9         107         76         38         0         123         0         189           Virginia         696         72         3, 786         342         61         172         20         702           Washington         301         58         284         256         322         283         194         25         302           West Virginia         167         55         1,956         204         73         78         718         166         78         79         103         79 </td <td></td> <td></td> <td>80</td> <td>339</td> <td>242</td> <td></td> <td></td> <td></td> <td>20</td> <td>182</td>			80	339	242				20	182
Rhode Island	Penneulronia 1	100	1 00	002	242	220	90	07	11	198
South Oatoma	Rhade Yelond	20	10	600						
South Dakota	South Combine		1,00							
Tennessee	South Debote		107	103						
Teras 3:	Torreson			1 705				17		
Otan         89         9         107         76         38         0         1 23         0         189           Virginia         696         72         3,786         342         61         1172         20         702           Washington         301         58         224         256         322         283         194         25         302           West Virginia         167         55         1,956         204         73         78         18         166           Wisconsin         898         162         3,390         286         796         27         103         12         68	Tellitessee	202	95	1,700	79	169	91	225	25	150
Vermont         89         9         107         76         38         0         123         0         189           Virginia         696         72         3,786         342         61         172         20         702           Washington         301         58         224         256         322         283         194         25         302           West Virginia         167         55         1,956         204         73         78         18         166           Wisconsiin         898         162         3,300         286         796         27         103         12         68	Treals									
Virginia         696         72         3,786         342         61         1172         20         702           Washington         301         58         284         256         322         283         194         25         302           West Virginia         167         55         1,956         204         73         78         18         166           Wisconsin         898         162         3,830         826         796         27         103         12	Vannant									
Washington	VOLUMBLE			107	76			1 23		
West Virginia. 167 55 1,956 204 73 78 18 166 Wisconsin 898 162 3 930 826 796 27 103 10 650	Washington and a second		1 72	3,786						
Wisconsin 898 162 3 930 898 796 97 103 10 650	A SECULATION		58	284	256		283		25	302
WISCODSIII	West virginia		55	1,956			73			166
	VF ISCONSIN							193	12	
Wyoming 55 7 12 17 138 2 2 0 60	Wyoming	55	7	12	17	138	2	2		

¹ Pulmonary.
2 Reports not received at time of going to press.
3 Reports received weekly.

⁴ Reports received annually. ⁸ Exclusive of Oklahoma City and Tulsa.

#### Case Rates per 1,000 Population (Annual Basis) for the Month of April, 1926

State	Chick- en pox	Diph- theria	Mea- sles	Mumps	Scar- let fever	Small- pox	Tuber- culo- s:s	Ty- phoid fever	Whoop- ing cough
Alabama		0.15	4, 42	1, 72	0, 31	0.86	1.64	0, 17	0.85
Arizona		. 23	. 60	. 29	1.76	. 03	3, 15	. 20	. 61
Arkansas	. 86	.03	. 93	70	. 18	.20	1, 20	.68	1.69
		1. 12			1.40	. 20	2.34	. 36	. 84
California	3, 48	1.12	3. 38	3.70					.04
Colorado	3. 02	. 98	2.48	. 14	1.71	. 05	1.66	. 69	4.13
Connecticut	1. 33	. 51	18, 95	. 31	3, 06	.00	1. 16	. 03	2.08
Delaware. District of Columbia	. 62	. 51	14.85	.05	2.00	.00	1, 72	. 05	. 62
District of Columbia	2.06	1.48	54. 13		2.44	. 02	2. 27	. 05	3.94
Fiorida	2,79	1.17	2.61	, 1, 25	. 38	4, 45	1. 31	. 50	1. 57
Georgia	. 78	. 15	2.31	1.05	. 13	.45	.40	.03	. 41
Idaho	1.53	. 34	3.63	2.85	1.79	1, 23	. 17	. 46	6. 36
Illinois	1.60	. 56	7.42	. 61	2, 60	. 28	3. 03	.08	1, 50
Indiana	1.03	.48	27, 19	.07	3, 74	1, 73	. 95	. 06	2, 38
Town 2	i								
Kansas Kentucky	2, 33	. 44	18, 06	1, 20	1. 80	. 33	1, 20	. 06	3, 95
Kentucky 3		1	20,00				-13		3. 55
Louisiana	. 46	. 20	. 60	. 45	. 63	. 67	1 1, 07	. 31	. 29
Maine	1 1 15	.17	20, 79	3, 21	1, 33	.00	. 59	. 28	2.42
Maryland	2, 80	70	20. 44	7.40	1.62	.00	2.58	. 24	2, 60
Maryland Massachusetts	1. 28	.66	11.00	1.37	3, 21	.01	2. 25	. 07	4.01
Michigan.	1. 39	.87	18. 73	.57	4. 02	.08	1.41	.05	2. 23
Minnesota		1. 27	11. 20	.51	6. 72	.00	1. 24	. 07	84
Willingsota	2.02		13. 20		. 25		2, 45	. 40	11.34
Mississippi Missouri	6.80	. 45	13. 20	11.31 .22	3, 52	. 72	. 50	. 40	1.08
Wissouri	. 26								
Montana	1.79	.15	3.68	1.30	3, 20	.51	1. 15	.00	. 95
Nebraska *									
Nevada 4 New Hampshire 4									
New Hampsnire					:				
New Jersey New Mexico 2	2, 44	. 88	33. 79		2.73	.00	1, 63	. 10	1.18
New Mexico 1									
New York	1. 29	1.04	16. 30	. 93	1.94	.02	1. 91	. 08	2, 26
North Carolina	2.44	. 35	5.07		. 46	. 66		.06	3.60
North Dakota	. 79	. 67	10. 77	2, 30	6. 75	. 21	. 25	. 21	1.11
Ohio	1. 26	.70	21.31	. 55	2, 69	. 48	1. 26	. 04	2. 75
Oklahoma 4	. 53	. 27	1.41	. 17	. 83	. 68	. 52	. 15	. 97
Oregon Pennsylvania 2	2.81	1. 25	4.71	3.43	3. 19	1.40	. 87	.16	2, 81
Pennsylvania 2						l			
Rhode Island	. 53	. 34	15. 11	.32	. 66	.00	1.02	.06	1.64
South Carolina	2, 42	_72	.94	.14	. 21	.72	1. 67	. 22	3, 07
South Dakota	1.43	.40	4.51	4.60	9. 38	. 53	. 31	.11	. 69
Tannossee	1 01	. 27	8.50	. 30	. 82	. 45	1.12	.12	.75
Texas 3									
Utah 2									
Vermont	3, 07	.31	3, 69	2, 62	1, 31	.00	1. 79	.00	6. 52
Virginia	3.42	. 35	18, 61		1.68	.30	1, 85	.10	3, 45
Washington	2.44	.47	2.30	2.08	2.61	2.29	1. 57	,20	2.45
Washington West Virginia	1. 25	41	14.63		1. 53	. 55	. 58	.13	1.24
Wisconsin	3.86	.70	16.89	3, 55	3, 42	.12	. 83	ÔŠ	2.69
Wyoming.		.38	. 64	.91	7. 40	:11	.11	.00	3. 69 3. 22
	1			1 .0-		}	1		1

¹ Pulmonary.
2 Reports not received at time of going to press.
3 Reports received weekly.
4 Reports received annually.
5 Exclusive of Oklahoma City and Tulsa.

## Number of Cases of Certain Communicable Diseases Reported for the Month of March, 1926, by State Health Officers

State	Chick- en pox	Diph- theria	Mea- sles	Mumps	Scar- let fever	Small- pox	Tuber- culo- sis	Ty- phoid fever	Whoop- ing cough
Alabama Arizona. Arkansas California	296 55 124 2, 071	48 17 20 619	521 10 116 780	241 27 105 1, 910	80 43 49 815	150 1 36 745	434 112 1 50 1, 135	30 4 11 41	110 6 142 367
Colorado Connectieut Delaware District of Columbia Florida	287 294 17 129 272	139 190 12 57 73	191 4, 670 483 1, 555 198	20 71 121	193 426 42 92 61	5 0 0 6 782	191 161 1 13 138 44	62 6 1 7 29	517 503 22 125 85
Georgia	237 55 1,506 374	34 24 356 101	368 106 4, 514 6, 948	219 149 533 14	52 85 2,050 914	176 94 107 441	114 1 4 1,359 215	8 6 44 9	160 107 939 476
Kansas Kentucky ⁸	395	71	2, 269	131	362	65	252	10	648
Louisiana Maine Maryland Massachusetts Michigan Minnesota	136 123 438 738 666 642	62 13 88 304 397 177	30 878 4, 337 5, 490 8, 258 1, 262	84 222 816 518 239	69 117 211 1,194 1,781 1,841	213 0 0 0 30 29	1 155 53 320 706 475 279	35 8 20 20 35 15	27 148 277 2,179 1,176 276
Mississippi Missouri Montana Nebraska Nevada ⁴ New Hampshire ⁴	936 399 112	82 290 16 20	1, 434 2, 439 50	1, 423 242 129	1,195 251 254	101 50 45	411 127 37	66 7 5 2	1,612 352 57
New Jersey New Mexico 2	890	312	10, 449		894	5	575	26	432
New York  North Carolina  North Dakota  Ohio  Oklahoma ⁶	1,928 924 101 1,054 104 235	979 107 41 364 65 77	16, 627 1, 094 117 14, 861 127 209	1, 110 119 276 31 172	2,032 127 403 1,984 193 169	7 137 17 309 102 147	1,830 18 613 54 55	103 6 33 14 7	2,503 682 41 1,689 204 233
Oregon Pennsylvania ² Rhode Island South Carolina South Dakota Tennesse Texas ³	21 34 120 200	41 75 19 44	1, 634 71 134 1, 535	19 29 308 107	55 22 392 116	0 .131 43 47	52 246 6 195	1 29 11 14	85 514 25 84
Utah* Vermont. Virginia Washington West Virginia Wusconsin Wisconsin Wyoming	415	3 96 78 53 166 6	105 2, 140 272 1, 388 2, 240	122 431. 809 28	57 341 361 158 709 77	0 75 424 73 48 0	1 18 1 203 179 70 155	1 25 18 26 19 0	178 896 217 291 837 40

¹ Pulmonary.
2 Report not received at time of going to press.
3 Reports received weekly.
4 Reports received annually.
5 Exclusive of Oklahoma City and Tulsa.

### Case Rates per 1,000 Population (Annual Basis) for the Month of March, 1926

State	Chick- en pox	Diph- therin	Mea- sles	Mumps	Scar- let fever	Small- pox	Tuber- culo- sis	Ty- phoid fever	Whoop- ing cough
Alabama	1.40	0. 23	2.46	1.14	0. 38	0.71	2. 05	0.14	0. 52
Arizona	1.54	.48	.28	.75	1. 20	.03	3. 13	.11	. 17
Arkansas	.78	. 13	.73	.66	. 31	. 23	1.31	.07	. 89
California	5.90	1.76	2.22	5.45	2.32	2.12	3. 24	.12	1.05
Colorado Connecticut	3, 27	1.58	2.18	. 23	2, 20	.06	2, 18	.71	5.89
Connecticut.	2.22	1.44	35. 28	. 54	3. 22	.00	1. 22	.05	3.80
Delaware District of Columbia	. 85	. 60	24.01		2.09	.00	1,65	.05	1.09
District of Columbia	2.98	1.32	35.98		2. 13	. 14	3, 19	.16	2.89
Fiorida	2.88	.77	2.09	1.28	. 65	8.27	. 47	.31	.90
Georgia	. 90	. 13	1.40	.84	. 20	. 67	1.09	.03	. 61
Idaho	1. 29	. 56	2.48	3.49	1.99	2.20	1.09	.14	2, 50
Illinois	2. 52	. 59	7.54	.89	3. 42	.18	2. 27	.07	1. 57
Indiana	1.43	.39	26.53	.05	3.49	1.68	. 82	.03	1.82
Iowa ²							:-:		
Kansas	2. 55	.46	14. 28	.85	2. 34	.42	1. 63	.06	4.19
Kansas Kentucky ³ Louisiana						:-:-	1.96		l
Louislana	. 85	.39	. 19	. 52	. 43	1.32		. 22	.17
Maine Maryland	1.84	.19	13. 17	3,33	1.75	.00	. 79 2. 43	. 12	2. 22 2. 10
Maryland	3.32	. 67	32.88	6.19	1.60	.00	1, 93	. 15	2.10
M ASSACILISALES	2.48	.86	15.47	1.46	3. 36	.00	1. 93	,06	6. 14
Michigan	1.85	1.10	22.92	.66	4. 94	.08	1. 52	. 10	3. 26
Minnesota	2.91	.80	5. 72		8.35	. 13	1. 27 2. 70	. 07	1. 25
Mississippi	6. 15	.54	9. 43	9.36	. 21	. 66	.43	. 43	10.60
Missouri	1.35	.98	8. 26 1. 05	.82	4.05	.17	. 66	.02	1. 19 1. 01
Montana Nebraska	1.98	.28	1.05	2.29	4.45	.80	.00	.02	1.01
Neuraska					2, 19			.02	
Nevada 4 New Hampshire 4 New Jersey New Mexico 2 New Mexico 2									
New Toron	9 04	1,03	34.46		2, 95	.02	1, 90	.09	1. 42
Now Marion 9	2.01	1.00	34. 40		2. 90	.02	1. 50	.00	1.42
		1.03	17. 43	1.16	2, 13	.01	1. 92	. 11	2, 62
North Carolina	3.89	. 45	4.61	1.10	. 53	.58	1.02	.03	2. 66
North Dakota	1.71	.70	1. 99	2.02	6.84	29	.31	.00	. 70
Ohio	1.93	.67	27. 24	.51	3. 64	.57	1. 12	.06	3.10
Ohio Oklahoma ⁵	54	.34	. 66	.16	1.00	.53	28	.07	1.05
Oregon Pennsylvania ²	3. 23	1.06	2. 87	2.36	2.32	2,02	. 28	.10	3, 29
Pennsylvania 2			2.0.		2.02	. 2.02			01.20
		.75	29. 79	.35	1.00	.00	. 95	. 02	1. 55
South Carolina	. 22	.49	. 47	.19	.14	.86	1.61	1 .19	3. 37
South Dakota	2.10	.33	2, 35	5.40	6.87	.75	.11	. 19	. 44
Tennessee	. 97	. 21	7. 41	.52	. 56	. 23	. 94	.07	.41
Texas :						1	l		
Utah 2	.								
Vermont	2.81	. 10	3. 51	4.08	1. 90	.00	1,60	.03	5. 95
Virginia	3.80	.46	10, 18		1.62	.36	1.97	.12	4, 26
Washington West Virginia	3, 26	.61	2. 13	3.38	2.83	3.33	1.40	.14	1.70
Wast Wireinia	1.81	.61	10.05	1	2.83 1.14	. 53	. 51	. 19	2.11
TI COU VII SALLICE									
Wisconsin Wyoming	3.80	.69	9.31	3.36 1.45	2, 95 4, 00	.20	. 64	.08	3. 48 2. 08

#### PLAGUE ERADICATIVE MEASURES IN LOS ANGELES, CALIF.

The following items were taken from the report of plague eradicative measures from Los Angeles, Calif .:

Week end	d June	5,	1926:
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Number of rats trapped	317
Number of rats found to be plague infected	
Number of squirrels examined	1, 183
Number of squirrels found to be plague infected	0
Number of mice trapped	266
Number of mice found to be plague infected	

Date of discovery of last plague-infected rodent, Nov. 6, 1925.

Date o last human case, Jan. 15, 1925.

¹ Pulmonary.
2 Report not received at time of going to press.
3 Reports received weekly.
4 Reports received annually.
4 Exclusive of Oklahoma City and Tuisa.

June 18, 1926 1244

#### GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended May 29, 1926, 36 States reported 1,001 cases of diphtheria. For the week ended May 30, 1925, the same States reported 1,012 cases of this disease. Ninety-nine cities, situated in all parts of the country and having an aggregate population of nearly 29,800,000, reported 707 cases of diphtheria for the week ended May 29, 1926. Last year for the corresponding week they reported 813 cases. The estimated expectancy for these cities was 848 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-four States reported 15,578 cases of measles for the week ended May 29, 1926, and 4,996 cases of this disease for the week ended May 30, 1925. Ninety-nine cities reported 7,028 cases of measles for the week this year, and 3,243 cases last year.

Poliomyelitis.—The health officers of 37 States reported 16 cases of poliomyelitis for the week ended May 29, 1926. The same States reported 15 cases for the week ended May 30, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-six States—this year, 2,882 cases; last year, 2,568 cases; 99 cities—this year, 1,555 cases; last year, 1,479 cases; estimated expectancy, 959 cases.

Smallpox.—For the week ended May 29, 1926, 37 States reported 495 cases of smallpox. Last year for the corresponding week they reported 725 cases. Ninety-nine cities reported smallpox for the week as follows: 1926, 109 cases; 1925, 271 cases; estimated expectancy, 121 cases. Three deaths from smallpox were reported by these cities for the week this year—at Los Angeles, Calif.

Typhoid fever.—Two hundred and nineteen cases of typhoid fever were reported for the week ended May 29, 1926, by 36 States. For the corresponding week of 1925, the same States reported 366 cases of this disease. Ninety-nine cities reported 56 cases of typhoid fever for the week this year and 85 cases for the corresponding week last year. The estimated expectancy for these cities was 78 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 93 cities, with a population of more than 29,000,000, as follows: 1926, 733 deaths; 1925, 722.

#### City reports for week ended May 29, 1926

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

			Diph	theria	Influ	nza			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine:	77 000					•			_
Portland New Hampshire:	75, 333	0	1	1	0	0	80	1	1
Vermont:	22, 546	0	0	0	0	1	0	0	1
Barre Burlington Massachusetts:	10, 008 24, 089	0	0	0	0	1 0	0 16	0	· 1
Boston	779, 620	33 2	51	19 1	4 0	1 0	148	63 2	16
Fall River Springfield Worcester	128, 993 142, 065 190, 757	2 0	3 4	1 5	0	0	22 3	0	1 0 4
Rhode Island: Pawtucket Providence	69, 760 267, 918	1 0	1 8	2 4	0	0 1	73 46	0	1 7
Connecticut: Bridgeport Hartford New Haven	(1) 160, 197 178, 927	1 4 10	5 6 3	0 1 0	0	0	3 12 62	0 0 5	2 5 13
MIDDLE ATLANTIC									
New York: Buffalo New York Rochester Syracuse	538, 016 5, 873, 356 316, 786 182, 003	20 117 13 9	11 262 7 6	12 187 16 0	0 31 0	1 14 0 0	32 804 65 254	92 1 13	25 168 2 5
New Jersey: Camden Newark Trenton	128, 642 452, 513 132, 020	6 52 2	3 14 3	2 9 1	0 4 0	0 8 0	25 134 35	0 20 0	6 8 3
Pennsylvania: Philadelphia Pittsburgh Reading	1, 979, 364 631, 563 112, 707	61 45 9	63 19 3	55 9 0		3 5 0	344 202 25	11 2 0	50 22 2
EAST NORTH CENTRAL	_						<u> </u>		
Ohio: Cincinnati Cleveland Columbus Toledo	409, 333 936, 485 279, 836 287, 380	6 5 41	7 19 3 4	5 25 9 4	0 4 0	1 0 3 3	229 43 92 333	22 0 0	6 12 1 8
Indiana:	97,846	4	2		0	2	85	-	l
Fort Wayne Indianapolis South Bend Terre Haute	358, 319 80, 091 71, 071	15 1 0	5 0 0	1 2 1 0	0	0	28 41 20	0 3 0 0	1 12 1
Illinois:	· ·			_					i .
Chicago Peoria Springfield	2, 995, 239 81, 564 63, 923	198 2 4	90 1 0	52 0 0	11 0 1	3 0 0	216 0 28	12	53 2 2
Michigan: Detroit Flint Grand Rapids	1, 245, 824 130, 316 153, 698	54 14 3	39 4 2	48 3 0	0 0 0	2 0 2	64 134 105	8 0 0	35 8

¹ No estimate made.

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			Dipl	theria	Infl	uenza	itinuec	T	T
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- nated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
Bast north central— continued									
Wisconsins Kenosha Madison Milwaukee Racine Superior WEST NORTH CENTRAL	50, 891 46, 385 509, 192 67, 707 39, 671	7 3 66 0	1 0 11 0 1	1 12 0 0	00300	00300	18 112 312 320 9	1 0 32 6. 0	1 0 18 2 2
Minnesota: Duluth Minneapolis St. Paul Iowa:	110, 502 425, 435 246, 001	13 78 19	.1 14 15	0 19 5	0 0	0 1 1	104 108 350	2	2 13 6
Davenport Des Momes Sioux City Waterloo Missouri: Kansas City	52, 469 141, 441 76, 411 36, 771	51225	0 2 1 6	0	0		3 0 0 54	0	
St. Joseph St. Louis North Daketa:	367, 481 78, 342 821, 543	3 3 17	39	1 0 57	2 0 1	2 1 1	94 24 608	0 0 7	5 3
Fargo	26, 403 14, 811	1	0	0	0	0	0	9	0
Sioux Falks Nebraska: Lincoln	15, 036 30, 127	8	0	0	0	0	18	8	ō
Kansas:	C0, 941 211, 768	37	1 2	8	0	0	2 94	0	₫ 7
Wichita	55, 411 88, 367	33	1	8	0	0	27	o 0	1 3
Delaware:	100 044		-	ŀ				-	
Maryland: Baltimere Cumberland	796, 296 33, 741	92	19	13	6 5	0 2	0	0	1
District of Columbia:	12,035	9	0	1	0	0	66 16 4	167	20 2 0
Virginia: Lynchburg Norfolk	497, 906 30, 395	21	9	20	0	0	248	0	12
Roanoke	186, 403 58, 208	50 3 2	1	9	0	0	56 19 122 42	0 0 14	0 3 1 1
Wheeling Worth Carolina:	49, 019 56, 208	3	0	Ó	0	. 0	20 140	0	٠
Raleigh Wilmington Winston-Salem South Carolina:	30, 371 37, 061 69, 031	1 3 13	0	0	0	0	4 9	o l	f I I
Charleston Columbia Greenville	73, 125 41, 225 27, 311	10 0	000	j O	9	1 0	8 0	0	0 2
Atlanta Brunswick Savanneh	(1) 16, 809 93, 134	3	1	6	3	1 0	1 43 4	1 0	0 0 6
Miami Tamps	69, 754 94, 743	4	0	7	0	0	2 19	5	0 2
¹ No estimate made.			-	-,	• ,	o j	3.1	0	2

			Diph	theria	Influ	lenza	3.5.		
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Measles, cases reported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
EAST SOUTH CENTRAL									,
Kentucky: Covington Louisville Tennessee:	58, 309 305, 935	0 3	1 3	1 5	0	0	10 63	0	0 14
Memphis Nashville Alabama:	174, 533 136, 220	16 3	2 0	1 0	6 0	1 1	210 8	0	5 5
Birmingham Mobile Montgomery	205, 670 65, 955 46, 481	6 0 1	0 1 0	0 0 1	5 0 0	2 1 0	157 0 10	2 0 2	9 0 0
WEST SOUTH CENTRAL Arkansas:									
Fort Smith Little Rock Louisiana:	31, 643 74, 216	5 1	0	0	0		1 20	1 0	ō
New Orleans ShreveportOklahoma.	414, 493 57, 857	1 2	6 0	7	5 0	0	3 0	0 4	8 3
Oklahona City Texas:	(1)	0	1	1	6	0	3	0	3
Dalias	194, 450 48, 375 164, 954 198, 069	25 0 0 0	3 0 2 1	3 0 3 2	0 0 0	1 0 1 0	0 0 0 2	0 0	2 0 2 8
MOUNTAIN									
Montana: Billings Great Falls Helena Missoula	17, 971 29, 883 12, 037 12, 668	7 7 0 3	0 1 0 0	0 0 0	0 0 0	0 0 0	14 57 0	0 0	1 1 0 0
Idaho: BoiseColorado:	23, 042	2	0	0	9	0	0	2	0
Denver Pueblo New Mexico:	280, 911 43, 787	37 17	10 1	1 3	ō	0	31 33	8	0
Albuquerque	21, 000	5	0	1	0	0	4	6	0
PhoenixUtah: Salt Lake City	38, 669 130, 948	0	3	, 0 10	0	0	1 7	0	1 4
Nevada: Reno	12,665	0	0	0	0	0	0	0	0
PACIFIC									
Washington: ScattleSpokaneTacoma	(1) 108, 897 104, 455	42 19 5	4 2 1	14 4 1	0 0 0	0	43 10 8	18 0 0	2
Oregon: Portland California:	282, 383	20	4	5	0	0	67	11	8
Los Angeles Sacramento San Francisco	(1) 72, 260 557, 530	51 3 54	33 2 18	28 3 9	8 0 4	0 1 2	8 1 228	14 11 17	13 0 3

¹ No estimate made.

City reports for week ended May 29, 1926-Continued

	Scarle	L fever		Smallpo	X	Tuber-	T-2	phoid f	ever	Whoop-	
Division, State, and city	Ceses, esti- mated expect- ancy	Cases re- ported	Cases, csti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	Cascs, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
NEW ENGLAND											
Maine: Portland New Hampshue: Congord	1	3 1	0	0	0	0	1	0	0	7	22 9
Vermont: Barre Burlington	1 0	0	0	0	0	1 0	0	0	0	0	8 5
Massachusetts: Boston Fall River Springfield Worcester	48 3 5 8	54 4 9 12	0 0	0 0 0	0 0 0	22 3 3 4	2 1 0 1	2 0 0	0 0	87 6 5 8	188 42 32 64
Rhode Island: Pawtucket Providence	1	4	0	0	6	1 3	0	1 0	0	9	17 69
Connecticut: Bridgeport	8	16	0	0	0	2	1	0	0	12	20
Hartford New Haven	4 4	3	0	0	0	2 2	0	0	0	5	41 81
MIDDLE ATLANTIC										1	
New York: Buffalo New York Rochester Syracuse New Jersey:	19 220 13 11	15 221 9 3	1 0 0 0	0 0 0	0 0 0	16 1107 2 1	0 12 0 0	1 5 1 0	9 2 9 0	20 63 18 27	154 1,367 75 44
Canaden Newark Trenten	16 2	6 20 5	0 1	0 0	0	2 5 10	0 0	1 1 0	0 2 0	32 2	34 168 43
Pennsylvania: Philadelphia Pittsburgh Reading	71 25 2	104 38 4	1 1 0	0 2 0	0 0	44 8 0	5 1 1	2 0 0	19 0	31 84 8	461 163 34
east north cen- tral		mint of the state of									
Ohio: Cincinnati	111	14	2	0	6	18	0	4	1	24	194
Cleveland Columbus Toledo	19 7 11	79 21 12	1 2 3	0 11 0	0	16	0 0	0 1	0	11 44	124 185 73 71
Fort Wayne Indianapolis South Bond Terre Haute	3 10 4 3	6 15 3 0	9 2 1	0 4 0 0	0 0 0	12 1 0	0 1 0 0	0 2 0 0	0 1 0 0	21 3 2	26 116 15 17
Illinois: Chicago Peoria Springfield Michigan:	106	131 2 5	3 0 0	4 0 0	0 0	56 0 2	4 0 0	3 0 0	0	71 9 11	676 23 18
Detroit. Flint Grand Rapids Wisconsin:	68 5 6	135 28 29	3 2 1	0,0	0	31 1 2	3 6 0	2 0 0	3 0 0	46 5 7	279 33 26
Kenosha Madison Milwaukee Racine Superior	1 2 21 4	0 3 20 3 5	0 1 5 1 2	0 0	0 0	1 0 5 0	0 0 1 0	0 0 0	0 0	3 0 67 18	8 6 101 19 10
WEST NORTH CEN-											
Minnesota: Duluth Minneapolis St. Paul	4 28 20	20 76 33	2 10 4	0 0	, 0 0	1 4 1	1 1	0	0 0 0	6 1 86	26 108 55

Pulmonary tuberculosis only.

	Scarle	t fever		Smallpo	×	Tuber-	Ту	phoid f	e ver	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST NORTH CENTRAL—continued											
Iowa: Davenport Des Moines Sioux City Waterloo Missouri:	0 6 2 2	1 7 8 0	5 3 1 0	1 0 5 0			0 0 0 1	0 0 0		1 0 2 10	
Kansas City_ St. Joseph St. Louis North Dakota:	7 1 27	15 7 95	3 0 3	0 1 3	0 0 0	8 1 2	1 0 2	0 0 2	0 0 0	16 0 48	107 37 271
Fargo	0	6	0	3	0	1	0	0	0	0	10
Aberdeen Sioux Falls Nebraska:	1	14 2	0	0	0		0	0	0	22 0	5
Lincoln Omaha Kansas:	1 4	67	0 5	10	0	5	0	0	0	19	12 58
Topeka Wichita	2 2	9	1 3	0	0	0	0	0	0	9 12	16 34
SOUTH ATLANTIC Delaware: Wilmington	4	4	0	0	0	1	1	0	0	2	30
Maryland: Baltimore Cumberland	25 1 0	24 1 0	1 0 0	0	0	19 0 0	3 0	2 0	0	49 1 2	193 7 1
Frederick District of Columbia: Washington	17	20	2	0	9	12	2	0	1	34	120
Virginia: Lynchburg Norfolk	1	4 12	- 0 0	0 3	0	1 1	0	0	0	7 20	13
Richmond	1 1	12 1 0	1 0 0	0	0	6	0	. 0	0	0 2	49 18
Charleston Wheeling North Carolina: Raleigh	2 0	1	0	0	0	0 2	0	0	0	10	20 22
Wilmington Winston-Salem South Carolina:	0	1	Ŏ 3	Ŏ O	0	1 2	0	0	0	7 3	9 25
Charleston Columbia Greenville	0 0 0	0 0 0	1 0 0	1 0 1	0 0 0	0 0	1 1	2 4 0	0 0 0	1 0 4	24 10
Georgia: Atlanta Brunswick Savannah	4 0 0	2 0 0	5 0 0	1 0 1	0	3 1 1	1 1 1	2 0 0	1 0 0	7 0 0	74 4 24
Florida: Miami Tampa	<u>i</u> -	0 2	<del>-</del>	7	<u>ō</u>	1 1	ō	0	1 2	2 3	32 35
EAST SOUTH CENTRAL								,			
Kentucky: Covington Louisville	1 4	1 16	1	1 0	0	0 4	0	1	0	0 2	95
Tennessee:  Memphis Nashville Alabama:	4 2	12 3	2 1	2 0	0	9 4	1	1 0	0	2 6	69 39
Birmingham Mobile Montgomery	1 0 1	1 0 0	7 1 1	8 0 1	0	4 2 0	2 1 0	2 1 0	1 0 0	28 2 0	73 21 4

	Scarle	t fever	£	Smallp	Σ	Tuber-	<b>L</b> 2	phoid f	aver	Whoop	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	enlo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST SOUTH CEN-			,	,							
Arkansas: Fort Smith Little Rock Louisiana:	1 0	1 12	0	0	0	0	0 1	0 1	· · · · · · · · · · · · · · · · · · ·	5 2	
New Orleans Shreveport Oklahoma;	8 0	8 1	2 2	2 0	0	17 2	8 0	0	0	7 5	160 29
Oklahoma City Texas:	1	2	5	0	0	0	0	1	0	0	22
Dallas Galveston Houston San Antonio	2 0 1 0	2 0 2 1	2 0 0 0	9 2 9 0	0 0 0	0 5 10	1 0 0	2 0 0	0 0 0 1	5 0 0	43 11 48 64
MOUNTAIN			1								
Montana; Billings Great Falls Helena Missoula	0 20 0	1 0 0	0 2 0 0	0 0 0	6 0 0	0 1 0 0	0 0 0	0 0 0	0 0	0 4 0 0	9 6 3
Idaho: Boise Colorade:	. 6	0	0	8	0	p	0	0	σ	Û	. 8
Denver Pueblo New Mexeio:	10 1	7	1	. 0	0. 0	9	1 1	0	0	34: 0	65 13
Albuquerque	0	4	0	0	0	. 6	0	0,	0	19	19
Phoenix Utah: Salt Lake City	0	3	0	1	0	6	0	0	0	. 0	18
Nevada; Reno	2 0	0	1 0	0	•	2 0	1	0	0	0	30 8
Pagific										•	
Washington: Seattle Spokane Tacoma Oregon:	9 4 2	6 12 5	8 4 2	. 0 5	6	ī	0 1	1 0 1	0	8 1 0	28
Oregon: Portland California:	6	28	8	10	0	3	1	0	a	2	57
Los Angeles Sacramento San Francisco	17 1 14	24 1 19	1	6 1 0.	3 Q <del>Q</del>	21 1 7	2 1 0,	2 0 0	0	13 0 6	208 22 146
			Cene	brospi; ningita		thargie phalitis	Pe	llagra		myelitis e paraly	
Division, Sta	te, and	city	Case	es Deat	hs Case	Death	s Cases	Death	Cases, esti- mated expect ancy	Cases	Deaths
NEW RN	GLAND										1
Vermont: Barre			c		0 0		9	0		, 1	
Massachusetts: Boston Fair River			0		0 1	(		0		1 1	0
Connecticut: Hartford New Haven			0		1 6	0	0				ő í

	Cereb men	rospinal ingitis	Let' encer	hargic obalitis	Pei	llagra	Polion tile	yelitis paraly	(infan- sis)
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
MIDDLE ATLANTIC									
New York: Buffalo. New York. Pennsylvania:	1 5	0 2	0	0 4	0	0	0	0 2	0
Philadelphia	0	0	0	1	0	0	0	0	0
EAST NORTH CENTRAL									
Ohio: Cleveland Toledo Illinois	0 1	1 0	0	0	0	0	0	0	0
Chicage Michigan:	1	0	1	0	0	0	0	0	0
Detroit WEST NORTH CENTRAL	0	0	2	0	0	0	0	0	0
Minnesota: Minneapolis	1	0	0	0	0	0	0	9	6
North Dakota. Fargo	0	0	0	1	0	6	0	0	0
SOUTH ATLANTIC									
District of Columbia: Washington Virginia:	0	0	0	1	0	0	0	0	0
Norfolk Roanoke North Carolina:	0	. 0	0	0	0	0	0	0	0
RaleighWinston-Salem	0	0	0	0	0 2	1 0	0	0	0
South Carolina: Charleston ¹ Georgia:	0	a	0	0	2	2	0	0	0
Atlanta Brunswick	0	0	0	1 0	0	0	0	0	8
Florida: Tampa	0	0	0	0	1	0	0	0	9
EAST SOUTH CENTRAL									
Tennessee: Memphis	0	0	0	0	0	1	0	. 0	0
Alabama: Mobile	0	, 0	0	0	0	1	0	0	0
WEST SOUTH CENTRAL		)							
Louisiana: New Orleans Shreveport Texas:	, 0	0	8	0	2 0	1 2	0	0	0
Dallas	0	. 0	0	0	1 0	0	0	0	0 0 0
Houston San Antonio	0	0	0	0	0	1 1 1	0	0	0
PACIFIC									
Washington: Seat! '	1 1	0	6	0	0	0	0	0	0
Oregón: Portland California:	0	0	0	1	0	0	0	0	0
Los Angeles San Francisco	0	0	1 1	1 0	2 0	1 0	0	3	0

¹ Dengue, 1 case at Charleston, S. C.

1252 June 18, 1926

The following table gives the rates per 100,000 population for 103 cities for the five-week period ended May 29, 1926, compared with those for a like period ended May 30, 1925. The population figures used in computing the rates are approximate estimates as of July 1. 1925 and 1926, respectively, authoritative figures for many of the cities not being available. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and more than 29,750,000 The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from civies, April 25 to May 29, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925 1

	ľ	HTI.	HERIA	CASE	TATE	es				
					Week	bobae				
	May 2, 1925	May 1, 1026	May 0, 1925	May 8, 1926	May 16, 1925	May 15, 1926	May 23, 1925	May 22, 1926	May 80, 1925	May 29, 1926
103 erties	152	110	2 152	8 115	4 158	8 122	148	§ 119	6 144	7 124
New England Middle Atturtir East North Central West North Central South A tlantic East South Central East South Central West South Central Mountain Pacific	212 102 195	83 114 97 200 68 73 50 118 154	105 211 106 269 98 11 62 102 2 117	106 125 89 3 195 75 62 60 146 178	140 237 102 205 81 32 53 148 10 132	87 135 96 228 77 52 82 182 175	122 202 101 243 83 37 40 129 157	78 138 117 167 71 36 47 127 164	110 210 106 187 5 72 11 62 130 160	86 148 108 9 199 45 64 127
		MEA	SLES (	ASE 1	RATES				·	·
103 cities	<i>F</i> 59	1, 706	² 603	1,712	4 599	8 1, 557	579	⁵ 1, 430	1 269	7 1, 230
New England Middle Atlantic East North Central West North Central South Atlantic Eest South Central West South Central Mountain Pacific	968 731 706 76 288 18- 16 518 155	1, 529 1, 417 1, 480 3, 988 2, 528 2, 528 159 865 669	949 793 830 199 227 315 31 176	1,714 1,429 1,454 34,458 1,942 3,218 125 883 661	1, 145 765 7795 70 311 152 13 55	1, 198 1, 198 1, 371 54, 451 1, 933 8, 461 155 1, 393 679	1, 014 615 858 235 309 310 22 176 124	1, 075 1, 133 1, 372 53, 838 1, 659 2, 950 142 1, 354 693	836 761 839 137 6 242 200 13 240 157	1, 004 056 1, 25 2, 85 6 1, 533 2, 370 11: 1, 36:
	sc	ARLE'	T FEV	er ca	SE RA	TES				
103 cities	297	292	*311	8 294	4 335	§ 326	297	# 311	6 267	7 27
New England Middle Atlantic. E.st North Central West North Central South Atlantic. East South Central West South Central Mest South Central Mountain Pacific.	415 322 302 502 125 242 106 324 119	281 221 280 867 218 371 146 218 205	400 318 341 560 100 242 84 268 2144	222 217 310 3933 177 187 176 137 208	345 330 368 705 156 299 70 342 16 187	312 249 356 356 2953 222 202 155 246 259	338 264 388 539 138 226 44 314 155	288 256 341 *813 195 176 172 173 294	204 270 321 514 5115 168 62 398 133	255 213 833 978 916 117 110 18

¹ The figures given in this table ere tates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1925 and 1926, respectively.

8 Spokane, Wash., not included.

8 Grand Forks, N. Dak., not included.

8 Superier, Wis., and Theome, Wash., not included.

8 Kansas City, Mo., and Grand Forks, N. Dak., not included.

8 Charleston, W. Va., not included.

9 St. Paul, Minn., Kansas City, Mo., Grand Forks, N. Dak., and Charleston, W. Va., not included.

8 Superior, Wis., not included.

8 Superior, Wis., not included.

18 Tacoma, Wash., not included.

Summary of weekly reports from cities, April 25 to May 29, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925—Continued

#### SMALLPOX CASE RATES

		DIVERSI	DIOA	ORDE	ILA L IS					
					Week	ended		•		
,	May 2, 1925	May 1, 1925	May 9, 1925	May 8, 1926	May 18, 1925	May 15, 1923	May 23, 1925	May 22, 1926	May 30, 1923	May 29, 1926
103 cities.	48	26	2 45	³ 26	144	⁵ 26	58	<b>4</b> 19	6 47	7 10
New England. Middle Atlantic East North Central West North Central. South Atlantic East South Central. Mest South Central. Most South Central. Mountain. Pacific	0 8 29 72 60 399 31 9	0 19 32 28 99 146 36 102	2 6 41 58 42 347 26 46 2 167	0 0 22 3 58 30 73 73 359 36 57	0 7 8 53 70 35 173 35 28 10 181	0 0 20 \$ 42 39 119 116 55 67	0 2 66 66 61 404 123 28 177	0 18 18 33 24 62 95 18 51	0 2 54 68 10 389 53 55 160	13 9 5' 6 24 6: 9: 3:
	TY	PHOII	FEV	ER CA	SE RA	TES				
103 cities	17	9	2 13	18	4 13	8 8	18	⁵ 11	6 15	71
New England Middle Atlantic East North Central West North Central South Atlantic East South Central Most South Central Mountain Pacific	10 22 4 12 27 42 48 0 17	5 6 4 6 19 21 17 18 27	5 13 8 2 27 42 44 6	9 7 4 3 6 13 16 17 0 11	12 10 86 0 25 58 75 0	0 10 5 5 2 4 0 43 9 8	24 19 5 4 36 68 62 18 6	9 7 5 87 32 10 26 9	17 9 7 10 639 47 62 9 8	8 8 3 3
		1	ENZA :	ı	11	T		1	II	1
96 cities	21	33	14	25	10 14	11 16	14	11 15	6 12	12 ]
New England. Middle Atlantic. Bast North Central. West North Central. South Atlantic. East South Central West South Central Most South Central Mountain. Pacific.	19 14 21 30 25 47 29 46 11	35 27 46 17 28 99 28 9	10 10 15 11 19 47 15 78 15	14 22 29 13 19 99 47 18 4	7 12 10 11 10 74 19 55 10 12	5 17 18 11 7 17 31 28 18 4	5 11 11 17 6 79 19 18 22	12 16 18 11 5 11 36 24 0 4	7 9 13 17 6 12 37 29 0 7	12 12 12 12 12 12 12 12 12 12 12 12 12 1
	P	NEUM	IONIA	DEAT	H RAT	ES				
96 cities	160	177	145	163	10 123	11 150	123	11 141	6 119	12 12
New England Middle Atlantic East North Central West North Central South Atlantic East South Central Most South Central Most South Central Mountain Pacific	144 206 138 70 180 179 121 120 113	210 219 152 106 177 233 161 118 75	156 184 123 74 148 147 131 120	170 174 178 121 169 223 118 82 78	129 143 118 55 129 152 106 157	165 165 147 11 79 182 182 137 91	110 143 116 76 125 126 73 166 120	144 173 133 11 88 148 171 90 82 53	110 145 111 57 6 147 158 73 74 73	12 14 16 18 6 11 17 10

Spokane, Wash., not included.
Grand Forks, N. Dak., not included.
Superior, Wis., and Tacona, Wash., not included.
Kansas City, Mo., and Grand Forks, N. Dak., not included.
Charleston, W. Va., not included.
St Paul, Minn., Kansas City, Mo., Grand Forks, N. Dak., and Charleston, W. Va., not included.
St Paul, Minn., Kansas City, Mo., and Grand Forks, N. Dak., not included.
St. Paul, Minn., Kansas City, Mo., and Grand Forks, N. Dak., not included.
Tacoma, Wash., not included.
Kansas City, Mo., not included.
St. Paul, Minn., Kansas City, Mo., and Charleston, W. Va., not included.
St. Paul, Minn., kansas City, Mo., and Charleston, W. Va., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively

Group of cities	Number of cities	Number of cities	Aggregate of cities 1ep	population orting cases	Aggregate population of cities reporting deaths		
	reporting	reporting reporting deaths		1925 1926		1926	
Total	103	96	29, 944, 996	30, 473, 129	29, 251, 658	29, 764, 201	
New England. Middle Atlantic Fast North Central. West North Central. South Atlantic. East South Central. West South Central. Mountain Pacific	12 10 16 14 21 7 8 9 6	12 10 16 11 21 7 6 9 4	2, 176, 124 10, 346, 970 7, 481, 656 2, 594, 962 2, 716, 070 903, 103 1, 184, 057 563, 912 1, 888, 142	2, 206, 124 10, 476, 970 7, 655, 436 2, 634, 662 2, 776, 070 1, 004, 953 1, 212, 057 572, 773 1, 934, 084	2, 176, 124 10, 346, 970 7, 481, 656 2, 461, 380 2, 716, 970 993, 103 1, 078, 198 563, 912 1, 434, 245	2, 206, 124 10, 476, 970 7, 655, 436 2, 499, 036 2, 776, 070 1, 004, 953 1, 103, 695 572, 773 1, 469, 144	

### FOREIGN AND INSULAR

#### CHOLERA ON VESSEL

Ship "Selandia" from Bangkok, Siam, for Copenhagen, Denmark.— On April 15, 1926, a sick seaman was landed at Singapore, Straits Settlements, from the motor ship Sclandia from Bangkok, for Copenhagen, via Penang, Singapore, and Colombo. The case of sickness was recognized later as cholera. The Selandia had no ship's doctor on board and carried no disinfecting apparatus. vessel was admitted at Suez, Egypt, after medical visit.

#### THE FAR EAST

Report for week ended May 22, 1926.—The following report for the week ended May 22, 1926, was transmitted by the Far Eastern Bureau of the Health Section of the League of Nations' Secretariat. located at Singapore, to the headquarters at Geneva:

	Pla	gue	Che	olera	pox				lera	era Small			
Maritime towns	Cases	Deaths	Cases	Deaths	Cases	Deaths	Maritime towns		Degths	Cases	Deatha	Cases	Deaths
Egypt Suez Iraq Basra British India Colcutt Bombay Madras Kanach Siam Bangkok French Indo-China' Saigon and Cholon Haiphong	1 6 0 0 0	1 0 0 5 0 1 0	0 0  362 17 7	58 0 0 0 192 17 5	6 3 13 32 3 21 6 0	0 3 10 24 3 4 3	Philippine Islands Manila Hongkong China: Shangha Amoy Sarawak Kuching Japan Osaka Kwaniung: Dairen Port Arthur	00 00 00 00	80 00 0 00	10 00 00	10 60 0 0 0 0	0 7 2 2 1 7 3	0 4 1 0 0 1 0

Telegraphic reports from the following maritime towns indicated that no case of plague, cholera, or smallpox was reported during the week:

#### ASTA

British India.—Chittagong, Cochin, Tuticorin, Vizagapatam. Ceylon.—Colombo. Federated Malay States .- Port Swettenham.

Straits Settlements.—Penang, Singapore.

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Dutch East Indies.—Batavia, Surabaya, Samarang, Cheribon, Belawan Deli, Palembang, Sabang, Makassar, Menado, Banjermasin, Balik-Papan, Tarakan.

British North Borneo .- Sandakan.

Portuguese Timor .- Dilly.

Philippine Islands.—Manila, Iloilo, Jolo, Cebu, Zamboanga.

French Indo-China .- Turane.

Formosa.-Keelung.

Japan.—Nagasaki, Yokohama, Simonoseki, Moji, Kobe, Niigata, Tsuruga, Hakodate.

Korea.—Chemulpo, Fusan.

Manchuria.—Antung, Mukden, Changchun, Harbin.

U. S. S. R.-Vladivostok.

#### AUSTRALASIA AND OCEANIA

Australia.—Adelaide, Melbourne, Sydney, Brisbane, Rockhampton, Townsville, Port Darwin, Broome, Fremantle, Carnarvon, Thursday Island.

New Guinea.-Port Moresby.

New Zealand.-Auckland, Wellington, Christchurch, Invercargill, Dunedin.

New Caledonia.-Noumea.

Hawaii.-Honolulu.

#### AFRICA

Egypt.—Alexandria, Port Said.

Anglo-Egyptian Sudan.-Port Sudan.

Eritrea.-Massaua.

French Somaliland .- Jibuti.

British Samaliland.—Berbera.

Italian Somaliland .- Mogadiscio.

Kenya.—Mombasa.

Tanganyika.—Dar-es-Salaam.

Zanzibar.—Zanzibar.

Seychelles .- Victoria.

Mauritius.-Port Louis.

Portuguese East Africa.—Mozambique, Lourenço Marques, Beira.

Union of South Africa.—Durban, East London, Port Elizabeth, Cape Town.

Reports had not been received in time for distribution from:

British India.-Rangoon, Negapatam.

Dutch East Indies .- Padang, Pontianak.

Madagascar.—Tamatave, Majunga.

#### **AZORES**

Smallpox (alastrim).—Under date of April 26, 1926, smallpox (alastrim) was reported still present in the Island of Fayal, Azores, with a few cases in the town of Horta and some prevalence in country districts.

#### BRAZIL

Disease prevalence—Mortality—January-March, 1926—Porto Alegre,—Information received for the three months ended March 31, 1926, for the city of Porto Alegre, Brazil, shows continued prevalence of typhoid fever, with 20 deaths. There were reported 210 deaths

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from tuberculosis. The infantile death rate was stated to have been high. The total number of deaths reported was 908 (population, estimated, 242,000). The chief causes of death were stated to have been tuberculosis and diseases of the digestive system.

Trachoma.—By decree of March 19, 1926, trachoma was made notifiable.

Sanitary improvements.—The construction of new municipal waterworks and sewers was stated to be under consideration, together with other sanitary improvements.

Mortality—Smallpox—Manaos—January 1-March 31, 1926.— During the three months ended March 31, 1926, 639 deaths from all causes were reported in the city of Manaos, Brazil. Deaths from smallpox were reported as follows: January, 27 deaths; February, 76 deaths; March, 42 deaths; total, 145.

Other discuses.—During the same period, 21 deaths from bronchial affections were reported, 100 from malaria, 93 from intestinal disorders, and 53 from tuberculosis. Population, estimated, 69,337.

#### EGYPT

Plague—April 30-May 6, 1926—Summary.—During the week ended May 6, 1926, three cases of plague, occurring in three districts, were reported in Egypt, making a total from January 1, 1926, of 21 cases as compared with 28 cases occurring during the corresponding period of the year 1925.

#### **ESTHONIA**

· Communicable diseases—February, 1926.—During the month of February, 1926, communicable diseases were reported in the Republic of Esthonia as follows:

Disease	Cases	Disease	Cases
Cerebrospinal meningitis	55	Tuberculosis Typhad fever Typhus fever	141 33 8

Population, census, 1922, 1,107,059.

#### GERMANY

National health week—Stuttgart—April 18-25.—At the inauguration of the National Health Week at Stuttgart, Germany, April 18, 1926, tuberculosis was stated to be the infectious disease most frequent in Germany, with an average of about 90,000 deaths yearly and at least 1,000,000 active cases present.

#### GREAT BRITAIN

Anthrax from shaving brush—Manchester—Murch, 1926.—Toward the end of March, 1926, a case of anthrax was reported at Manchester, England, the infection being attributed to an infected shaving brush purchased from a firm in Glasgow who obtained their supply from a firm in Czechoslovakia. The brush was labeled "guaranteed free from anthrax." It was found that a large quantity of these brushes had been received by the Glasgow firm and generally distributed. Examination showed the brush in question to be heavily infected with anthrax. Other brushes from the same supply have been examined, but no other infected brush has been found.

Epidemic measles—Glasgow—Four-week period ended April 24, 1926.—During the four weeks ended April 24, 1926, 771 cases of measles with 75 deaths were reported at Glasgow, Scotland.¹

Respiratory diseases.—Prevalence of acute primary and influenzal pneumonia was reported, with 347 deaths from pneumonia, 211 from influenza, and 86 from pulmonary tuberculosis.

#### GUADELOUPE (WEST INDIES)

Communicable diseases—May, 1926.—During the month of May, 1926, 27 cases of dysentery, 32 cases of malaria, 20 cases of "pian," and 1 case of smallpox (alastrim) were reported for the Island of Guadeloupe, West Indies. Chicken pox was reported present with a few cases.

Unidentified disease—Pointe à Pitre.—An unidentified disease accompanied by fever was reported present at Pointe à Pitre, Guadeloupe, during the week ended April 24 and the month of May, 1926.

#### LATVIA

Communicable diseases—February, 1926.—Communicable diseases were reported in the Republic of Latvia during the month of February, 1926, as follows:

Disease	Cases	Disease	Cases
Diphtheris Erysipelas Leprosy Measles Mumps Paratyphus fever	55 16 2 273 60 1	Poliomyelitis Scarlet fever Typhoid fever Typhois fever Whooping cough	1 295 33 18 48

Population, 1,850,000.

#### MADAGASCAR

Plague—March 16-31, 1926.—During the period March 16 to 31, 1926, there were reported in Madagascar 75 cases of plague with 73 deaths. Of these, 31 cases with 29 deaths were bubonic, 25 cases with 25 deaths pneumonic, and 19 cases with 19 deaths septicemic in type.

¹ Public Health Reports, Apr. 2, 1926, page 639, and May 7, 1926, page 910.

#### MÉXICO

Anthrax among cattle, Vera Cruz—Hoof-and-mouth disease, Tabasco, Mexico.—Under date of June 3, 1926, cases of anthrax were reported among cattle in the vicinity of the port of Vera Cruz. On the same date hoof-and-mouth disease was reported in the district of Tabasco.

#### SALVADOR

Mortality, general—Mortality from communicable diseases—Salvador—October 1, 1925—March 31, 1926.—Deaths from communicable diseases and general mortality have been reported for the periods October 1 to December 31, 1925, and January 1 to March 31, 1926, for the Republic of Salvador, as follows: October 1-December 31, 1925—Cholera nostras or gastroenteritis, 148 deaths; measles, 149; tuberculosis, 140; typhoid fever, 2. January 1-March 31, 1926—Cholera nostras or gastroenteritis, 182 deaths; measles, 135; tuberculosis, 118; typhoid fever, 8. Population of Republic of Salvador, 1,500,000.

Malarial and other fevers.—During both periods named malarial and other tropical fevers were stated to be the prevailing diseases in Salvador.

#### UNION OF SOUTH AFRICA

Plague—April 18-24, 1926.—During the week ended April 24, 1926, one fatal case of plague was reported in the Union of South Africa. The case occurred in the Cape Province and in Cradock District.

Typhus fever.—A case of typhus fever was reported during the same period at Durban, Natal, and outbreaks of the disease were reported at other localities in the Union.

#### VIRGIN ISLANDS

Communicable diseases—April, 1926.—During the month of April, 1926, communicable diseases were reported in the Virgin Islands of the United States as follows:

Island and disease	Cases	Remarks
St. Thomas and St. John: Chancroid Gonorrhea Malaria Syphilis. St. Croux: Dysentery Filariasis. Syphilis. Tuberculosis	2 8 2 5 2 2 1	Malignant tertian. Secondary, 4; congenital, 1. Entamebic. Bancreti. Secondary. Chrenic pulmonary.

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

The reports contained in the following tables must not be considered as complete or final as regards cither the lists of countries included or the figures for the particular countries for which reports are given.

### Reports Received During Week Ended June 18, 1926 1

#### CHOLERA

Place	Date	Cases	Deaths	Remarks
India				Apr. 11-17, 1926: Cases, 4,154; deaths, 2,709.
Indo-China: Saigon	Apr. 5-May 1	90	73	The statistics cover Saigon and Cholon.
Philippine Islands: Manila	Apr. 25-May 1 Jan. 1-Feb. 13	1 64	1 55	
Siam: Bangkok	Apr. 23-29	107	59	
Ship Selandia				Apr. 15, 1926: Case landed at Singapore, Straits Settlements. Vessel from Bangkok, Siam via Penang, Singapore, and Colombo, for Copenhagen. Received at Suez, Egypt, after medical visit.
	PLA	GUE		
Egypt				Apr. 30-May 6, 1926: Cases, 3. Total, Jan. 1-May 6, 1926: Cases, 21; corresponding period year 1925, cases, 28. Apr. 11-17, 1926: Cases, 10,232; deaths, 8,366.
Bombay Karachi	Apr. 11-24 May 2-8	7	6	deaths, 8,366.
Indo-China: Saigon	Apr. 5-11	1		
Java: Batavia Madagascor	_		41	Mar. 16-31, 1926: Cases, 75
Meramanga Province Tananarive Province	Mar. 16-31	. 5	5	deaths, 73.  Bubonic and septicomic.  Mar. 16-31, 1926: Cases, 70  deaths, 68. Bubonic, pneu
Tananarive Town Other places	Mar. 16-31do	. 8 62	7 61	monic, septicemic.
Bangkok Union of South Africa: Cape Province	Apr. 23-29	. 2		
Cradock District	Apr. 18-24	1	1	
	SMA	LLPOX		
Algeria:	May 1-10	. 3		
Arabia: Aden	May 9-15	1		From interior of country.
Fayal				Apr. 26, 1926: Present in country districts.
Horta	Apr. 28			A few cases.
Manaos. Para. Canada:	May 9-15	3	3	Jan. 1-Mar. 31, 1926: Deaths, 145
Kingston Ottawa China:	May 9-15 May 24-29	1 1		
Anlung Foechow Hongkong	May 3-16 Apr. 25-May 1	7	4	Present.
Nanking Swatow	Apr. 18-24 Apr. 25-May 8 May 2-8		4	Prevalent.
Tiensin	May 2-8	1		Sporadic.

¹ From medical officers of the Public Health Service, American consuls, and other sources.

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

## Reports Received During Week Ended June 18, 1926—Continued SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
Channe				
Chosen:	A 70 T . 20	1		
ChinampoSeishin	Apr. 1-30		1	
Seoul	do	ı	1	
Egypt:		1		
Alexandria	Ann 16-22	7	1	
France:	Apr. 10-22	'	-	
Saint Etienne	Apr. 17-30	1 1	1	
Great Britain:	Apr. 11-00	1	-	
Wngland and Wales		1	1	May 9-15, 1926; Cases, 165.
England and Wales Newcastle-on-Tyne	May 16-22	2		141dy 5-10, 1520, Cases, 100.
Guadeloupe (West Indies)	1V1ay 10-22	1 -		May, 1926: One case (Alastrim).
India				Apr. 11-17, 1926. Cases, 7,561;
India				1.695.
Bombay	Apr 11-24	53	31	1,000.
Karachi	May 2-8	21	1	
Madras	May 2-8.	4	i	
Irao:	May 2-0	*		
Bagdad.	Apr. 4-May 1	3	1	
		12	g	
Basra Japan:	Mar. 20-May 1	12	9	
жове	Apr. 25-May 1	1		
Yokohama	Apr. 18-24		1	
Mexico:	Apr. 18-24		1 1	
Guadalajara	May 25-31	1	2	
San Luis Potosi	May 23-29		4	
Palestine:	May 25-29		4	
Jerusalem	Feb. 1-28	1		
Portugal:	Feb. 1-20			
Lisbon	Anw 10 Morr 18	16		
Oporto	May 9-15	1		
Spain:	May 9-13	1 .		
Valencia.	May 16-22	1	1	
Switzerland:	May 10-22	1		
Lucerne		1	i	Mar. 1-31, 1926; Canton, 1 case.
Ducei ne				Mat. 1-01, 1920. Canton, I case.
	1,	1	1	1
	TYPHU	S FEVE	R.	
		1,	1.	
Chile:	İ	ł	1	
Antofogasta	May 2-15.	4		,
China:	i	1	1	_
Antung	Apr. 13-May 16	23		
Palestine:		l .		
Haifa District	May 4-10	1		
Union of South Africa				Apr. 18-24, 1926; Outbreaks at
			1	several localities.
Natal—			1	
Durban	Apr. 18-24	1		
		į.		1

## Reports Received from December 26, 1925, to June 11, 1926 ¹ CHOLERA

Place	Date	Cases	Deaths	Remarks
Chosen	October-Novem- ber, 1925.	· 12	. 5	
French Settlements in India	Dec. 1-31	880	712	
Do	Jan. 1-Mar. 6	435	. 349	
India	37 7 00			Oct. 18, 1925-Jan. 2, 1926:
Calcutta	Nov. 1-28 Dec. 6-26	101	- 89 54	Cases, 21,316; deaths, 12,371 Jan. 3-Mar. 13, 1926; Cases.
Do	Dec. 27-Jan. 16		41	31,105; deaths, 17,859. Mar.
Do	Jan. 24-Apr. 3	464	417	21-Apr. 10, 1926; Cases, 18,382.
Madras	Nov. 15-Jan. 2	174	70	deaths, 13,326.
_ Do	Jan. 3-Apr. 17	146	90	
Rangoon	Nov. 8-Dec. 3	4	4	and the second
Do	Jan. 24-Apr. 17	23	20	1

¹ From medical officers of the Public Health Service, American consuls, and other sources.

# CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

# Reports Received from December 26, 1925, to June 11, 1926—Continued CHOLERA—Continued

Place	Date	Cases	Deaths	Romarks
Indo-China				September-December, 1925
Province—		2	2	Cases, 11; deaths, 7.
Annam	Sept. 1-30	2	1	
Cambodia	Dec. 1-31	6	4	
Cochin China	Sept. 1-Dec. 31 Jan 4-17	2	2	Including 100 square kilometers
Saigon	2811 4-11	-	_	of surrounding country.
Do	May 20			Present.
Tonkin	May 20 Sept. 1-Nov. 30	3		
Japan	Aug. 30-Oct. 17 Oct. 25-1)ec. 26	409		
Do	Oct. 25-1)ec. 26	113		•
Do	Jan. 17-30	5		
Philippine Islands:	NT . 0 T 0			
Manila	Nov 9-Jan. 3 Jan. 4-Mar. 6	15	10 27	
DoProvince—	Jun. 4-Mur. 6		-	
Bataan	Nov. 30-Dec. 26	29	25	
Do	Jan. 2-16	1	ľil	
Batangas	Jan. 24-Feb. 20	13 -	13	
Bohol	Jan. 23-30	1	1	
Bulacan	Oct 18-Nov 7	92	64	
Do	Nov 23-Dec. 31	200	88	
Do	Nov 23-Dec. 31 Jan. 2-30 Nov. 23-Dec. 26 Jan. 24-Feb. 6	. 6	6	
Laguna Do	Nov. 23-Dec. 26	18	14	
Do	Jan. 24-Feb. 6	5 2	6 2	
Leyte	Jan. 3–9 Dec. 20–31	35	30	
Mindoro Nueva Ecija		7	5	
Pampanga	Nov. 30-Dec. 13 Nov. 1-7 Nov. 23-Dec. 31 Jan. 2-Mar. 3 Sept. 27-Nov. 21 Dec. 21-30 Jan. 3-Feb. 20	i	ĭ	
Do	Nov. 23-Dec. 31	113	85	
Do	Jan. 2-Mar. 3	39	85 35	
Rizal	Sept. 27-Nov. 21	75	21	
Do	Dec. 21-30	14	11	,
Do	Jan. 3-Feb. 20	89	30	•
Rombion		27	14	
Russia	May-June July-August	7		
Do Siam:	July-August	*		
Bangkok	Oct 4-Nov 14	108	68	
130	Oct. 4-Nov. 14 Nov. 22-Dec. 26 Dec. 27-Mar. 13	270	149	
Do	Dec. 27-Mar. 13	398	275	
Do	Mar. 21-27	90	52	
Do	Apr. 4-10	102	61	
On vessel: Steamship	0.4.0	9		3 F N
Steamsnip	Oct. 3	9		Arrived at Bangkok, Siam: Cases in coolie passongers.
######################################	PLA	GUE		
A			ı	A Maddida and a management of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
Argentina Buenos Aires	Tom 94-95			Jan. 24-30, 1926: 6 cases, occur- ring in interior Provinces of
Azores:	Jan. 24-30	1		ring in interior Provinces of Salta and Santa Fo.
St. Michaels	Jan. 17-Apr. 3	9	4	Sales and Santa Po.
Belginm:	COM. II-MAIL BULLE	,		
Belgium: Vilverde	Dec. 1-8	1	1.	
Brazii:	1	_	-	
Bahia	Nev. 8-Dec. 28	3	1	
Do	Dec. 27-Jan. 30	4	2	
Santos	Dec. 8-21		2	ļ
Sao Paulo	Reported Mar. 25.	4	1	
British East Africa:	1	}	}	
Kenya— Kisumu	Mary 99-Dec #	١.		1
Do	Nov. 22-Dec. 5 Jan. 31-Mar. 20	1 15	2 3	1
Uganda Protectorate	Sept. 1-Dec. 31	468	426	ł
Do	Jan. 1-Feb. 28	159	143	1
Canary Islands:			1 -=	
Let Lacura	Dec. 24.	3	2	t .
Les Palmas	i do	i	L	l
Do	Jen. 7	1	1	1
Do	Dec. 18-27	3	h	ł
Colobor	Dec. 28-Feb. 1	. 3		.}

__ Dec. 29-Fob. 2.___

12 Notherlands Bust Indies.

# CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

### Reports Received from December 26, 1925, to June 11, 1926—Continued

#### PLAGUE-Continued

Place	Date	Cases	Deaths	Remarks
Ceylon:	Nov. 15-Dec. 5 Dec. 27-Jan. 16 Jan. 24-Apr. 24 Nov. 15-Apr. 24	6	3 2 6	1 plague rodent.  Feb. 14-20, 1926: 2 plague rodents.  Prevalent.
Ecuador: Ambato	Mar. 31	31 66	5 12 29	Rats taken, Nov. 1-Dec. 31, 1925, 49,370, rats found infected, 281. Rats taken, Jan. 1-May 15, 1926: 93,539; tats found infected, 666.
Latacunga Recreo (country estate) Egypt Alexandria Beni Suef Fayoum Province Gharbia Province Mina Province Suez	Apr. 12. Jan. 1-15. Mar. 10-Apr. 22. Nov. 18. Dec. 3-9. Mar 9-30. Mar. 4. Mar. 27-Apr. 22.	l	1 1 1 3 1 1	Present.  Jan. 1-Dec. 9, 1925: Cases, 138.  Jan. 1-Apr. 22, 1926: Cases, 16.
Greece. Athens Do Herakleion Patras. Hawaii Territory Hawaii— Honokaa	Nov. 1-30. Jan. 1-Mar. 31. Feb. 4. Nov. 13-Dec 12. Feb. 2.	25 1 4	1	Including Piræus. On island of Crete. 1 plague infected rodent found near Hamakua Mill Co. 1 death suspected plague.
Kakuihaela	Jan. 3-Apr. 10 Dec. 6-12 Nov. 1-Dec. 19	1 7	1 1 12 	Jan. 29, 1926: Plague-infected rat found in vicinity. Oct. 18, 1925, Jan. 2, 1926: Cases, 15,135; deaths, 10,677. Jan. 3- Mar. 13, 1926: Cases, 53,563; deaths, 41,553. Mar. 21-Apr. 10, 1926: Cases, 32,319; deaths, 25,991.
Madras Presidency Do. Do. Do. Do. Rangoon Do. Indo-China	Feb. 21-Apr. 24 Oct. 25-Nov. 7 Nov. 15-21 Dec. 20-26 Jan. 3-Mar. 20 Mar. 27-Apr. 10 Oct. 25-Dec. 26 Dec. 27-Apr. 17	75 35 108 1229 80 23 124	41 22 64 773 51 15 113	September-December, 1925:
Province— Cambodia. Cochin China. Iraq: Bagdad Do. Java	Sept. 1-Nov. 30 Sept. 1-Dec. 31 Dec. 13-Jan. 2 Jan. 10-Apr. 17 Feb. 28-Mar. 6	13 15 7 111	13 13 3 61 5	Cases, 28; deaths, 26.
Batavia	Oct. 24-Nov. 6 Nov. 14-Jan. 1 Jan. 2-Mar. 12 Mar. 19-Apr. 2 Sept. 27-Oct. 17 Nov. 15-Dec. 26 Jan. 3-Mar. 6 Oct. 20-Nov. 9	315 483 19	89 297 468 19 166 198	Province.  Epidemic in 1 locality.
Kediri Koeningan Do. Pekalongan Do. Do. Do. Pobolinggo.	Dec. 27–Jan. 16 Feb. 7–Mar. 6 Sept. 27–Oct. 17 Nov. 8–Dec. 26 Feb. 14–Mar. 6 Feb. 12		114 103 42 252 123	Do.  Epidemie. Port.
Rembang Surabaya Do. Tegal Do. Do.	Oct. 11-Dec. 26 Dec. 27-Apr. 10 Sept. 27-Oct. 17. Nov. 8-Dec. 26 Feb. 21-Mar. 6	6.	59 46 6 31 11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

#### Reports Received from December 26, 1925, to June 11, 1926-Continued

#### PLAGUE-Continued

Place	Date	Cases	Deaths	Remarks
Madagascar				Nov. 1-Dec. 31, 1925: Cases, 632; deaths, 593. Jan. 1-31, 1926: Cases, 611; deaths, 565.  Mar. 1-15, 1926: Cases, 111; deaths 70
Province—				632; deaths, 593. Jan. 1-31.
Ambositra	Dec. 16-31	8	7	1926: Cases, 611; deaths, 565.
Do Fort Dauphin	Jan. 1-15	2 6	2 3	Mar. 1-15, 1926: Cases, 111;
Do	Sept. 16-30 Jan. 16-Mar. 15	4	4	deaths, 79.
Itasy	Sept. 16-Oct. 30	20	20	
Do	Sept. 16-Oct. 30 Nev. 16-Dec. 31	34	34	
Do	Jan, 1–15	29	29	
Do Moramanga	Ben. 1-15	29. 49	29	
Do	Sent. 16-Dec. 31 Jan. 1-Mar. 15	51	48 47	-
Tananarive	Vall. 1 21101, 10	01	21	Sent. 16-Nov 30 1025 Come
Town-				Sept. 16-Nov. 30, 1925: Cases, 368; deaths, 341. Dec. 16-31, 1925: Cases, 152; deaths, 143. Jan. 1-Mar. 15, 1926: Cases,
Tamatave (Port)	Sept. 16-Nov. 30	42	11	1925: Cases, 152; deaths, 143.
Do	Feb. 1-Mar. 15	5	3	Jan. 1-Mar. 15, 1926: Cases,
Tananarive	Sept. 16-30	. 2	2	583; deaths, 486.
Do Do Mauritius Island	For 1 15	11 40	11 40	
Mauritius Island	Sept. 20-Dec. 26	21	18	[
Moca.	Dec. 1-31	2	2	
Pemplomorrane		. 3	2	1
Port Louis	Oct. 1-Dec. 31	13	9	<b>{</b>
Port Louis Rivière du Rempart	October	2		
M1010000.	May 9-15 Aug. 1-Dec. 31	١.		
Tangier Nigeria	May 9-10	594	447	<u> </u>
Do	Jan. 1-31	24	21	
Persia:	1		-	
Teheran	Oct. 21-Nov. 21		12	
Peru Barranca and Supo Cañete				January-March, 1926: Cases, 383;
Barranca and Supo	Mar. 1-31	4	6	deaths, 148.
Canada	do	1		
Caras Cascas			ļ	Present.
Chicleve	da	15	5 4	1
Chicleye. Chisabete Obinche Contumesá	do	16	8	Country estates.
Obineba.	do	14	5	County County
Contumazá	do	12		
Cutorvo Huacho	100	ļ	ļ	Present.
Lacranmerca	Jan. 26 Mar. 1-31	15		Port 60 miles north of Callao.
Lacranmarca Lima	Jan. 1-31	20		In hospital. Some cases in Prov-
	1			ince.
Moliendo Do Moro	do		}	12 or 15 cases reported unoffi-
Moná	Mer. 1-31			i cially.
Ottoma	GO			Present.
Otusco Pacasmayo Salaverry San Pablo	do	2	1	
Salaverry	do	5	2	
San Pablo	do	l	1	Po.
Trujilo Russia	do	15	5	7
Kussia	May-June	67		
Do Senegal		200		
DAMABRETTE	September-Octo- ber.	45	25	
Siam	Aug. 23-Dec. 26	65	53	
Do	Aug. 23-Dec. 26 Dec. 27-Jan. 30	15	9	
. Bangkok	1 N 032 15-28	3	8	
Do	Jan. 3-30	38	33	
Do	Feb. 7-20 Feb. 28-Apr. 10	11	5	
Straits Settlements:	1 40. 20-Apr. 14.	5	2	
Singapore	Nov. 1-Dec. 5.	8	. 8	,
D0	Nov. 1-Dec. 5 Jan. 3-Mar. 20	3	. 3	
Syria: Beirut	1	ł		
Do	Nov. 11-20 Jan. 21-31	1		,
Do_ Union of South Africa	Jan. 21-31	1		Man 7.12 100c. C 0. T
	1	,		Mar. 7-13, 1926: Cases, 3; Euro-
Cape Province	Apr. 4-10	1	1	pean, 2. Mar. 21-27, 1926; Cases, 12; deaths, 4. Apr. 4-17, 1926; Cases, 7; deaths, 4.
Cradock district	Apr. 4-10.	2	2	1926: Cases, 7; deaths, 4.
K Importan district	FFRM 13-154 .	1		14871467
Middleburg district Steynsburg district	Dec. 6-12 Now. 15-21	1		European.
Winburg district	Fab. 21-27	1		Native. On farm.
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	r 7.4.0		· · · · · · · · · · · · · · · · · · ·

Remarks

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

### Reports Received from December 26, 1925, to June 11, 1926—Continued

#### PLAGUE-Continued

Cases

Date

Place

Deaths

Union of South Africa—Con.				
Orange Free State				Mar. 14-Apr. 10, 1926: Cases 11;
Rochaf district	Nov. 29-Dec. 5	1	1	deaths, 5 In native.
Boshof district Bothaville district	Dec 6-12	1	1	Native. On farm.
Bradfort district	Mar. 28-Apr. 3	ī	1	Torreson is some foreits and
Grandfort district		i	1	European, in same family, pneu- monic.
Hoopstad district Kroonstad district Winburg district	Mar. 7-Apr. 17	10	5	
Kroonstad district	Mar. 14-20	11	5	Native. On farm.
On vessel:	Mar. 14-Apr 3	11		
Steamship Cid				Jan. 29, 1926. Plague rat. At Buenaventura, Colombia. Rat
				was killed while jumping ashore from vessel.
	SMAI	LLPOX	<u> </u>	
Frank 1981 - 1981 - 1981 - 1981 - 1981 - 1981 - 1981 - 1981 - 1981 - 1981 - 1981 - 1981 - 1981 - 1981 - 1981 -			,	
Algeria:				
Algiers	Nov. 21-Dec. 31			
Do	Jan 1-10 Jan 21-Apr. 20	64		
Arabia:	_	1		
Aden	Nov. 29-Dec. 5 Jan. 10-Mar. 6	10	1	Imported
Do Argentina:	Jan, 10-Mar. G	10	1	
Rosario	October		1	
Australia: Queensland—				,
Brisbane	Dec. 9-15	1		
Azores:	l	1		
Fayal Island	Feb 2-Apr. 11 Feb 23			Present. Reported as alastrim. In Nassau district. Stated to
Bahamas	ren. 25			have been imported.
Brazil:				•
Manaos	Dec. 1-31 Jan. 31-Feb. 20		12	•
Para			10	v.
Para Rio de Janeiro	Nov. 1-28 Dec. 6-26	134	72	
Do	Dec. 6-26 Dec. 27-Apr. 3	65 279	26 224	June 27, 1925-Mar. 20, 1926:
	Dec. 21 2xp1.0	240		Cases, 1,089; deaths, 580.
British East Africa: Kenya—		1		
Mombasa	Nov. 15-Dec. 19	14	6	
Do Tanganyika territory—	Dec 27-Mar. 20	2		•
Dar-es-Salaam	Fab 21-27	,	i	
Uganda Proctectorate	Feb. 21-27 Sept. 1-Oct. 31 Feb. 1-28	8	4	·
Do British South Africa:	Feb. 1-28	1		
Northern Rhodesia	Jan. 5-11.	2		
Southern Rhodesia	Nov. 13-Dec. 23	3		
Canada				Sept. 13-Jan. 2: In 7 Provinces, 186 cases. Jan. 3-May 8, 1926:
	, ,	l		Cases, 504.
Alberta		<u>-</u> -		Jan. 3-May 1, 1926; Cases, 70,
Calgary British Columbia—	Dec. 13-19	1		From Drumheller, vicinity of Calgary.
Vancouver	Jan 4-Mar. 27	2		Cangary.
Victoria.	Mar. 21-27	2		T 0 34 0 1000- Cone 70
Manitoba	Dec. 13-19	2		Jan. 3-May 8, 1926: Cases, 78.
Manitoba. Winnipeg Do. New Brunswick	Jan. 3-Apr. 10	16	. 1	
New Brunswick— Northumberland	Dec 6-12	1		, r
Ontario	1790. 0-13	1		Dec. 1-31, 1925; Cases, 32. Jan.
	1			3-May 8, 1926; Cases, 269.
Admaston Alice and Fraser King	Jan. I-Feb. L	16 6		Township.
King.	do	7		Do.
Wilmot Belleville	do	6		Do.
Belleville	!do	.1 4	Luciana	Į,

Allice and Fraser Feb. 1-28.

King do.

Wilmot do.

Belleville do.

### Reports Received from December 26, 1925, to June 11, 1926—Continued

Place	Date	Cases	Deaths	Remarks
Canada—Continued.				
Ontario—Continued.		. 1		
Kingston	Mar. 8-14	1 26		
Kitchener North Bay.	Feb. 11-Mar. 14.	7		
Ottawa	Dec. 6-12	2		
Do	Jan 3-Feb 6	2		
Sarnia	Mar. 14-May 8	9		
Toronto	Mar. 14-May 8 Dec. 27-Jan. 2 Jan. 3-May 15 Jan. 3-Apr. 17	1 31		
Do	Jan. 3-May 13	15		~
Saskatchewan				Jan. 3-May 8, 1926: Cases, 131.
Moose Jaw	Jan. 3-Mar. 20	2		,
Regina.	Jan. 24-May 1	5		
Saskatoon	Feb. 14-20	1		
Ceylon: Colombo	Dec. 6-12	1		Port case.
Do	Jan. 3-Feb. 6	5		2 517 55551
Chile:	i			
Punto Arenes	Dec. 13-26		8	
Do	Dec. 27-Jan. 2		4	
China: Amoy	Oct 25-Dec 19		1	
Do	Jan. 10-Apr. 17		35	
Antung	Oct. 25-Dec. 19 Jan. 10-Apr. 17 Dec. 7-20	2 2		
Do	Mar. 21-Apr. 24. Feb. 21-27	2		-
Changsha	Feb. 21-27			Present.
Chungking Do	Nov. 15-17 Feb. 28-Apr. 3			Do. Do.
Foochow.	Nov. 1-Apr. 17.			Do.
Hankow	Nov. 1-Apr. 17 Nov. 14-Dec. 26	4		
Do	l Jan. 10-Mar. 6	3		
Hongkong	Nov. 22-Dec. 26 Jan. 3-Apr. 3	4	]	1
Do Manchuria	Jan, 3-Apr, 3	17	5	
An-shan	Dec. 6-12	. 1	l	
Do	Jan. 10-May 1	12		South Manchuria Railway.
Changchun	_lao	51	1	Do.
Dairen	Oct. 19-Dec. 27	73	15	Po.
Do Fushun		90	28	Do. Do.
Harbin	Ian 1-May 6	38		Do.
Kai-yuan	Jan. 10-May 1 Jan. 31-May 1 Jan. 17-Apr. 24	7 3		Do.
Kungchuling	_ Jan. 31-May 1	. 3		Do.
Lio-yang	Jan. 17-Apr. 24 Oct. 24-Nov. 15	6		Do. Do.
Mukden Do	Jan. 24-Feb. 27	4		Do.
Suping Kai.	Mor. 14-May 1	. 4		Do.
Tieh-ling	Oct 26-Nov. 15	2		Do.
Do	Apr. 18-24	. 1		. <u>D</u> o.
Nanking	Apr. 18-24 Nov. 21-Dec. 26. Dec. 27-Apr. 24			. Po.
Do Shanghai	Oct. 25-Jan. 2	37	36	. Do.
Do	Jan. 3-May 1	64	143	Cases, foreign only.
Swatow	Nov. 22-Apr. 24			Prevalent.
Tientsin	Nov. 1-Dec. 19 Jan. 23-Feb. 27	. 2		
Do	_ Jan. 23-Feb. 27	. 2		4
Chosen: Seishin	Jan. 1-Mar. 31	. 58	33	
Curaceo	May 3-0	i i	99	From Trinidad.
Egypt:	1	i	]	
Alexandria	Dec. 3-31	- 5	2	
Po	_ Jan. 8-14	. 2		
Do	Jan. 29-Apr. 8 Dec. 25-31	63	11	1
Do	Jan. 1-7	1 12		1
Port Said	Feb. 26-Mar. 4			1
Esthopia		1		November, 1925: Cases, 3,
Franca				September-December, 1925:
Do House	Jan. 1-Feb. 28	- 93	9	Cases, 253.
Havre Paris	Jan. 25-31	i ii		
French Settlements in India	Mar. 1-Apr. 30 Jan. 2-Mar. 6	167	159	
Gold Ceast	. September, De-	58	5	
Do	cember.		i	
Do	Jan. 1-Feb. 28	133	1 15	1

### Reports Received from December 26, 1925, to June 11, 1926—Continued

Place	Date	Cases	Deaths	Remarks
Great Britain:				
England and Wales				Nov. 15-Dec. 26, 1925; Cases, 790; Dec. 27-May 1, 1926; Cases,
Bradford	May 2-15 Dec. 27-Jan. 23	3		Dec. 27-May 1, 1926: Cases,
Hull	Dec. 27-Jan. 23	29		4,290.
Do	Feb. 7-Mar. 27	9		
Leeds	Jan. 14-Feb. 6 Jan. 31-Feb. 6	4	1	
London Newcastle-on-Tyne	Nov 20 The 10	6		
Do	Dec 27-May 2	41	1	
Nottingham	Nov. 22-Dec. 26	9		
Do	Nov. 29-Dec. 19 Dec. 27-May 2 Nov. 22-Dec. 26 Dec. 27-Apr. 24	8		
Shoffield		7		
<u>D</u> o	Dec, 20-26	3		
Do	Dec. 20-26. Dec. 27-Mar. 20 Apr. 25-May 8	18 3		
Do South Shields	Feb. 9	3		Reported present in severe form.
Greece	1.00. 9			Oct. 1-31, 1925: Cases, 16.
Athens	Nov. 1-Dec. 31	18	i	CCC, 1-31, 1020. Cases, 10.
Do	Jan. 1-Mar. 31	87	6	
Kelamata	Mar. 1-7	1		From Patras.
Saloniki	Feb. 16-Apr. 12		3	
Guadeloupe (West Indies)				Apr. 23-May 10, 1926: Present.
			1	Alastrim.
India	-57			Oct. 18-Dec. 26, 1925: Cases,
Bombay	Nov. 8-Dec. 26 Dec. 27-Apr. 10	26 328	20	19,472; deaths, 4,449. Dec 27
Do Calcutta	Nov. 8-Dec. 26	48	171	1925-Apr. 10, 1926: Cases, 99,599; deaths, 25,653.
Do	Dec 27-Apr 3	620	25 397	99,099, (lentina, 20,000.
Karachi	Dec. 27-Apr. 3 Nov. 1-21	23		
Do	Nov. 29-Dec. 5	4	2	
Do	Dec. 13-19	3		
Do	Dec 20-May 1	138	45	
Madras	Nov. 15-Dec. 26 Dec. 27-May 1 Oct. 25-Dec. 26	17	5	
Do	Dec. 27-May 1	153	27	
Rangoon	Dec. 25-Dec. 26	7 13	1 1	
Do	Dec. 27-Jan. 16 Jan. 24-Mar. 6	70	17	•
Do	Mar. 21-Apr. 17	29	17	
Indo-China	**************************************			Soptember-November, 1925:
Province-				Cases, 346; deaths, 86.
Annam	Sept. 1-Dec. 31	232	44	, , , , , , , , , , , , , , , , , , , ,
Cambodia	do	84	34	
Cochin China	do	106	51	·
Saigon Do	Dec. 21-27	2 14	1 2	Tradition 100 servers bilanceians
Tonkin	Jan. 1-Mar. 28 Sept. 1-Dec. 31	153	2	Including 100 square kilometers of surrounding country.
Iraq:	pope. I Doc. bi	100	-	or surrounding country.
Bagdad	Nov. 1-Dec. 26	19	15	Sept. 6-Oct. 17, 1925: Cases, 81;
Do	Nov. 1-Dec. 26 Dec. 27-Apr. 17	23	. 13	deaths, 40.
Basra	do	67	51	1
Italy				Aug. 2, 1925-Jan. 2, 1926: Cases,
Catenia	Feb. 15-28	7	1	52. Jan. 3-Mar. 27, 1926: Clases,
Do	Apr. 27-May 2 Jan. 21-Feb. 10	4		38,
Genea Rome	Oct. 12-25	1		
Do	Feb. 22-28	li		Compressor in constitut district
Jamaica	2 021. 4M 202-1-1-1-	·		Nov. 29-Dec 26, 1925; Cases 95.
				Occurring in consular district. Nov. 29-Dec. 26, 1925; Cases, 95. Dec. 27, 1925-Apr. 24, 1926; Cases, 509. Reported as alas-
Kingston	Nov 29-Dec 26	43	ļ	trim. Reported as alastrim.
Kingston Do	Nov. 29-Dec. 26 Dec. 27-Jan. 30 Feb. 28-Apr. 24	48		Do.
De	Feb. 28-Apr. 24	36		Do.
Ispan:			1	
Kobe	Mar. 14-Apr. 17	3		<b>l</b> ,
Nagasaki	Feb. 15-25	2		
Taiwan		3		,
	Nov. 11-Dec. 10			
Volvohomo	Mar. 21-31	3		
Nagasaki Taiwan De	Nov. 11-Dec. 10 Mar. 21-31 Dec. 14-20	1		,
120	Mar. 21-31 Dec. 14-20 Feb. 23-Apr. 17		11	,
Java:	Fep. 23-Apr. 17	71	11	,
Java: Batavia Do	Oct. 24-Dec. 25 Feb. 20-Mar 19	71 8	11	
Java: Batavia Do	Oct. 24-Dec. 25 Feb. 20-Mar 19	71	11	
Java: Batavia	Oct. 24-Dec. 25 Feb. 20-Mar. 19	71 8 6	11	

### Reports Received from December 26, 1925, to June 11, 1926—Continued

Place	Date	Cases	Deaths	Remarks
Java-Continued.				
East Java and Madoera	Mar. 28-Apr. 10	9		
Kiaksaan	Oct. 11-17i	11		
Malang	Oct. 11-Dec. 26	2		
Do	Dec. 27-Jan. 16	3	2	
North Bantam	Oct. 4-17	4		
Pekalongan	Oct. 25-31	1		
Pontianak	Jan. 31-Feb. 6		1	
Probolinggo	Oct. 11-17	1		
Serang	Feb. 14-27	5		
South Bantam	Feb. 23-Mar. 27	i		
Surabaya	Oct 11-Dec. 26	633	104	•
Do	Dec. 27-Mar. 13	141	43	
Tegal	Oct. 4-10	9	1	
Lat via				December, 1925: Cases, 3.
Malta	Nov. 1-Dec. 21	21	3	
Do	Jan. 1-Feb. 28	20		
Martinique	May 10			Prevalent.
Fort de France	Apr. 11-May 1	6		Alastrim.
Mexico				July-September, 1925: Deaths,
Aguascalientes	Dec. 13-Jan. 2	4	3	1,157.
Do	Jan 3-30		7	
Do	Feb. 14-May 22		6	1
Camargo	May 22 May 9-17	2		
Chihuahua	May 9-17	7		<b>!</b>
Ciudad Juarez	May 9-24		2	
Durango	Dec. 1-31		1	Į.
Do	Jan. 1-31		2	
Guadalajara			26	
Mexico City	Nov. 28-Dec. 5	1		Including municipalities in Fed-
		_		eral District.
Do	Jan. 3-May 15	32		Do.
Saltillo	Apr. 4-10	ī		
San Luis Potori	Jan. 17-Mar. 20		53	
Do		15	38	Ĭ
Tampico.	Dec. 21-Jan. 2	1	1	ĺ
Do	Jan. 2-Mar. 10	8		İ
Torreon	Nov. I-Dec. 31		51	l .
Do			80	
Vera Cruz	Mar. 29-Apr. 4	5	1	1
Netherlands:	•		1	
The Hague	Jan. 30-Mar 6	. 2	1	1
Nigeria				Aug. 1-Dec. 31, 1925; Cases, 389;
Do	Jan 1-31	135	1	deaths, 6.
Palestine:		1		
Hebron.	Jan 26-Feb. 1	2		
Tiberias	Feb. 9-15	. 1		[
Persia:	Į	į.	į.	Į.
Teheran	July 23-Dec. 22		775	1
Do	Dec. 23-Feb 19	l	. 99	l
Peru:	1	1	1	
Arequipa	Oct. 1-Dec. 31		. 2	1
Poland			.l	Nov. 1-28, 1925: Cases, 9. Jan 1-Mar. 27, 1926; Cases, 20.
		1		1-Mar. 27, 1926; Cases, 20,
Portugal				Mar. 1-28, 1926: Deaths, 6.
Lisbon	Oct. 4-31	124		
Do	Nov 16-Dec. 27		60	
Do	Nov. 14-Dec. 26	187	1	l
Do	Dec. 27-Apr. 25	126	32	l
Oporto	Nov. 22-Dec. 19	2	3	
Do	Nov 16-Dec. 27 Nov. 14-Dec. 26 Dec. 27-Apr. 25 Nov. 22-Dec. 19 Dec. 27-Apr. 24	4	ĭ	l
Rumania	August-October	3	· · · · · · · · · · · · · · · · · · ·	<b>[</b>
Russia				May-June, 1925: Cases, 2,333.
	1	1	1	July 1-Dec. 31, 1925: Cases,
	1	1	i	4,019.
Senegal:	1	1	I	1
Dakar	Apr. 19-25	1	1	]
Siam	1 -	1		July 12-Sept. 5, 1925; Cases 21;
S	1	3	1	deaths. 6.
Bangkok	. Dec. 20-25			
BangkokDo	Dec. 20-25 Dec. 26-Mar. 6	81		
Do	Dec. 20-25 Dec. 26-Mar. 6 Mar. 14-Apr 10	81 30	37 18	
Do	Dec. 20-25	81 30	37	•

### Reports Received from December 26, 1925, to June 11, 1926—Continued

Place	Date	Cases	Deaths	Remarks
pain:				
Madrid	Year 1925		18	
Do	Jan 1-31 Nov. 29-Dec. 5 Dec. 27, Jan. 2 Dec. 20-26		1	
Malaga	Nov. 29-Dec. 5		2	,
Do	Dec 27 Jan 2		ī	
Valencia	Dec. 20-26	1		
Do	Dec. 27-Jan. 2 Jan. 10-Feb. 6 Feb. 14-May 8	î		
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Switzerland				June 28-Nov. 21, 1925: Cases, 6
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Lucerne	Oct. 1-Nov. 30 Jan. 1-31	8		· •
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unisia				Jan. 1-Mar 31, 1926; cases, 123.
Tunis	Nov. 21-30	2		
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Orange Free State— Kuruman district	7 10 10	ł		70.
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Belfast district	Jan. 2-9 Dec. 6-12			Do. Outbreaks. In native con pounds.
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Belfast district Germiston district Protoria district	Jan. 2-9 Dec. 6-12			Do. Outbreaks. In native con pounds. Mexican steamer Montezume.
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Belfast district.  Germiston district  Protoria district  on vessel  Ligeria:  Algiers  Do  argentina:  Rosario.  Bulcaria.	Jan. 2-9. Dec. 6-12. Feb. 21. TYPHU: Nov. 1-Dec. 20. Jan. 1-Apr. 10. Oct. 13-Dec. 31. Sent. 1-Dec. 31.	2 3 FEVE 2 13 2 50		Do. Outbreaks. In native compounds. Mexican steamer Montezuma.
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### Reports Received from December 26, 1925, to June 11, 1926—Continued

#### TYPHUS FEVER-Continued

Place	Date	Cases	Deaths	Remarks
China: Antung Do Hongkong Manchuria—	Nov. 29-Dec. 27 Jan. 4-Apr. 11 Dec. 27-Jan. 2	5 15 1	1	
Harbin Do. Shanghai Chosen	Dec. 17- Feb. 4 Apr. 2-8 Mar. 14-20	3 1 1		Jan. 1-31, 1926: Cases, 70; deaths,
Czecheslovakia Do Egypt:	October-December Jan. 1-Feb. 28	146 67	1	7.
Alexandria. Cairo. Port Said. Do.	Jan. 8-Feb. 25 Nov. 5-Dec. 16 Nov. 19-25 Mar. 12-Apr. 22	2 3 1 2	2	
Esthonia. Finland. France. Greece	Jan. 1-Feb. 28 July-October	14		October, 1925: 1 case.  December, 1925: Cases, 12.
Athens	Nov. 1-30 Jan. 1-Mar. 31 Dec. 29-Jan. 4 Feb. 2-Apr. 19	11 45 1 3	9	
Hungary Ireland:				November-December, 1925: Cases, 16. Jan. 1-31, 1926: Cases, 6.
Cork County— CorkDo		2 5		
Do Dumanway	May 2-8 Nov. 14	1 1		
Galway County  Kerry County  Listowel  Timerary County	Mar. 7-13			Rural district.
Tipperary County— Cashel District Wexford County— Gorey	May 9-15do	1		Do.
ItalyLatviaDo	Feb. 21-Mar. 27 October-December. Feb. 1-Mar. 31	38 12 20		20.
Riga Lithuania	Oct. 1-31	2		September-December, 1925: Cases, 26; deaths, 1. Jan. 1- Feb. 28, 1926: Cases, 62, deaths,
Mexico	Dec. 14-19 May 2-8 Dec. 1-31	1	<u>1</u>	July-September, 1925: Deaths, 90.
DoGuadalajara Do	Jan. 1-31 Dec. 8-28 Dec. 29-Jan. 4		, 2	
Mexico City Do Do	Nov. 22-Dec. 26 Dec. 27-Mar. 28 Mar. 28 Apr. 10	89 11		Including municipalities in Federal District. Do. Do.
Do	Feb. 6-13 Dec. 21-Jan. 10	10	1 1	D6.
Torreon Vera Cruz: Morocco	November, 1925 Feb. 12 August-December.	93	1	
Do Norway	Jan. 1-Feb. 28	130		November-December, 1925; Cases, 2,

### Reports Received from December 26, 1925, to June 11, 1926—Continued

#### TYPHUS FEVER-Continued

Place	Date	Cases	Deaths	Remarks
Palestine:				
Ekron	Mar. 30-Apr. 5			
Gaza	Dec. 18	1		
Haifa	Mar 16-Apr. 19	2		
Jaffa	Dec. 1-7	1		
Do	Feb. 23-Mar. 1	1		
Nazareth	Nov. 3-9	1		
Ramleh	Mar. 16-22 Nov. 24-30	1		
Safed.	Nov. 24-30	1		
Tel-Aviv Do	do Mar. 9-15	1		
Tiberias	do	2		
Peru:		-		
Arequipa	October-December.		3	
Do	Feb. 1-Mar. 31		2	
Poland	Oct. 11-Jan. 2 Jan. 3-Mar. 27	462	44	
Do	Jan. 3-Mar. 27	1, 468	114	
Rumania Constantza				July 1-Dec. 31, 1925; Cases, 348;
Constantza	Feb. 1-Mar. 10	2		deaths, 41. Jan. 1-Feb. 28,
	1		1	1926: Cases, 324; deaths, 21.
Russia				May-June, 1925: Cases, 10,680.
Do				July 1-Dec. 31, 1925. Cases,
Tunisia:			1	July 1-Dec. 31, 1925: Cases, 348; deaths, 41, Jan. 1-Feb. 28, 1926: Cases, 324; deaths, 21. May-June, 1925: Cases, 10,680. July 1-Dec. 31, 1925: Cases, 11,253. Jan. 1-Mar. 31, 1926: Cases, 180.
Tunisia:	Mar. 21-May 10	6	1	Cuses, 150.
Turkey:	Mar. 21-May 10	0		
Constantinople	Jan 24-30	3		
Do	Jan. 24-30 Feb. 9-Mar. 31	6		
Union of South Africa	200.0 2.202.0222		1	October, 1925: Cases, 88; deaths, 7 (colored). Cases, Europoans 7. December, 1925: Cases, 78; deaths, 9. Colored: Casos, 73; deaths, 9. Jan. 1-Mar. 31, 1926: Cases, 200; deaths, 29. Colored. Apr. 4-10, 1925: Outbreaks in Mount Currie and Teolo district
			1	7 (colored). Cases, Europeans
	1		1	7. December, 1925: Cases, 78;
•			l	deaths, 9. Colored: Cases, 73;
	1	•	} -	deaths, 9. Jan. 1-Mar. 31,
	l		1	1926: Cases, 200; deaths, 29.
Cape Province	Oct. 1-31	63	5	Colored. Apr. 4-10, 1925: Out-
_Do	Nov. 8-Dec. 31 Jan. 1-Mar. 31	47	8	breaks in Mount Currie and
Do	Jan. 1-Mar. 31	159	21	Tsolo district.
Grahamstown	Jan. 24-30			At Beacons Field location.
Kimberley district	Apr. 11-17 Dec. 6-12	i		
Middleburg district Molteno district	Apr. 11-17	1		
Steynsburg district	do		1	Do.
Natal	Oct. 1-Dec. 5	1	1	1 20.
Do		13	1	Colored.
Durban	Jan. 3-Apr. 17	10	1 i	,
Port Shepstone	Apr. 4-10	. 1		.[
Port Shepstone Orange Free State	Nov. 29-Dec. 5	23	1	1
· Do	Dec. 1-31	. 8	1	_
Do. Bethulia district.	Jan. 1-Feb. 28	8	3	Do.
Bethulia district	Dec. 6-12			Outbreaks.
Bothaville district	.łdo	. 1	1	Native. On farm.
Transvaal	Oct. 1-31	1	1	1
Do	Dec. 1-31	. 18		•
Do	Feb. 1-Mar. 31	9	4	1
Johannesburg district Blee nhof district	Mar. 1-20 Dec. 27-Jan. 2	3		Outbreak. On farm.
Yugoslavia	Dec. 21-7411. 2			Jan 1-Mar. 21, 1926: Cases, 105
T OR ODIG A 10				deaths, 18.
	YELLO	v feve	R	
	la	T .	T -	I
	Sept. 1-Dec. 31	.) 4	3	1
Gold Coast	DOD4. Z 200. 01	'i =	1 -	ì
Gold Coast Nigeria Senegal	August-October November, 1925	. 3	2	

### TREASURY DEPARTMENT

# PUBLIC HEALTH REPORTS 17: AUG. 1921

BY THE UNITED STATES PUBLIC HEALTH SERVICE

VOLUME 41 :: Number 26

JUNE 25 1926

### SPECIAL ARTICLES

Agglutination and Agglutinin Absorption in Tularæmia Reports of the Health Section of the League of Nations



WASHINGTON GOVERNMENT PRINTING OFFICE

#### UNITED STATES PUBLIC HEALTH SERVICE

Hugh S. Cumming, Surgeon General

#### DIVISION OF SANITARY REPORTS AND STATISTICS

Asst. Surg. Gen. B. J. LLOYD, Chief of Division

The Public Health Reports are issued weekly by the United States Public Health Service through its Division of Sanitary Reports and Statistics, pursuant to acts of Congress approved February 15, 1893, and August 14, 1912.

They contain: (1) Current information of the prevalence and geographic distribution of preventable diseases in the United States in so far as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other connuunicable diseases throughout the world. (2) Articles relating to the cause, prevention, or control of disease. (3) Other pertinent information regarding sanitation and the conservation of the public health.

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## AGGLUTINATION, CROSS-AGGLUTINATION, AND AGGLUTININ ABSORPTION IN TULARÆMIA

By Edward Francis, Surgeon, and Alice C. Evans, Associate Bacteriologist, Hygienic Laboratory, United States Public Health Service

#### Abbreviations:

To avoid the constant repetition of the technical names in their nomenclatorial forms, we adopt in this paper the following abbreviations:

tularense = Bacterium tularense McCoy and Chapin, 1912.

melitensis = Brucella melitensis variety melitensis [A] (Bruce, 1893)

-Evans, 1923, Public Health Reports, Vol. 38, p. 1943.

abortus=Brucella melitensis variety abortus (Bang, 1897)

-Evans, 1923, Public Health Reports, Vol. 38, p. 1943.

Only these two varieties of *Brucella melitensis* are considered in the present paper because they are the only varieties known to occur commonly in the United States.

The final diagnosis in tularæmia rests on the isolation of a culture of tularense or on agglutination of a stock culture of this organism by the patient's blood serum. The latter is a reliable test and has been employed in the Hygienic Laboratory of the United States Public Health Service at Washington, D. C., for several years as a routine test of suspected serums submitted for diagnosis.

Tularæmia serums have been received from 24 States, from the District of Columbia, and from Japan. A study of these serums has been supplemented by a study of the agglutinin reactions in experimental animals; the results are presented under the following heads: A. Agglutination:

- (1) Agglutination of tularense by human tularæmic serums.
- (2) Nonagglutination of various organisms by human and animal tularæmic serums.
- (3) Nonagglutination of tularense by nontularsemic human and animal serums.
- (4) Nonagglutination of abortus and melitensis by human and animal serums.

### B. Cross agglutination:

- (1) Cross agglutination of abortus and melitensis by human and animal tularæmic serums.
- (2) Cross agglutination of tularense by scrums from cases of undulant fever and by scrums of animals immunized against abortus and melitensis.

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C. Agglutinin absorption:

- (1) Agglutinin absorption reactions of human and animal tularæmic serums.
- (2) Reciprocal agglutinin absorption reactions of four tularense strains.
- (3) Reciprocal agglutinin absorption of tularense, abortus and melitensis.

Technique. Summary. Conclusions.

#### (1) AGGLUTINATION OF TULARENSE BY HUMAN TULAREMIC SERUMS

Table 1 presents agglutination titers of 120 cases of tularæmia. In 28 of these cases the initials of the patient's name are given and tests of his serum taken at intervals are recorded, showing the rise and fall of agglutinin titer in the individual as time progressed; in 92 cases no initials are given and only a single sample of serum was tested for each case; hence no two records are for the same individual.

Analysis of Table 1 shows: A complete absence of agglutinins for tularense in the first week of tularemia; the constant presence of agglutinins in the second week; an abrupt rise in titer in the third week, reaching its maximum in the fourth, fifth, sixth, or seventh week; a fall of titer in the eighth week; a gradual decline thereafter until at the end of the first year the average titer of 17 cases was 1:136; a persistence of agglutinins in long-recovered cases; and the failure of agglutinins entirely to disappear in any case even 10, 14, and 18 years after recovery.

Five market men who showed agglutinin titers of 80, 80, 40, 40, and 40, respectively, were not included in Table 1 because the date of onset of their illness could not be determined. These men had been engaged annually in the rabbit season in skinning and dressing rabbits, but were without knowledge of an attack which could be definitely ascribed to tularæmia. It is believed that the maintenance of their agglutinin titer was not due to annual exposure to infection but to a persistence of agglutinins from their first attack; for it has been observed that, in laboratory workers, the degree of persistence of agglutinins is no greater in those exposed daily to infection than in those who have not been exposed since their attack of tularæmia.

Table 1.—Agglutination titers of blood serums of 120 cases of tularamia

																	-	
,			Weel	Week of illness					Months	ths		Yes	rs aft	Years after onset of illness	et of i	Hnes	_	
Cases	First	Second	Third	Fourth	Fifth	ļ	Sixth Seventh Eighth	Eighth	8	9	1	C.I	60	3.	9	2	41	82
28 cases, tested 2 or more times								1										
B. F. T.	3 days; 0	9 days; 80		23 days; 320 92 days: 160	160	320			8	Ì	T	+	1 1	$\frac{1}{1}$				
E. W. M.	5 days; 0	11 days; 160	18 days; 320	25 days; 1, 280	1				320			+	+	+	+	-	4	11
(CS) I	6 days; 0	days;	factor of							Ì	1	1	+	1	÷	+	ļ	-
W. C. G.	6 days; 0	14 days; 80	21 days; 1, 280						П	320	160	$\frac{11}{11}$	$\frac{11}{11}$		<u>   </u> 	H	Н	11
S. T. M	6 days; 0		17 days: 160	26 days; 1,280	-					8	160		+	1	$\frac{1}{1}$	$\frac{11}{11}$	11	
N. G.	o facan	8 days; 20	16 days; 160	1						i	+	+	+	+	+	$\frac{1}{1}$	ļ	1
O. I.			18 days; 940	25 days; 160		320			П	Ħ	$\frac{1}{1}$	<del>   </del>	$\frac{11}{11}$	<u> </u>		11	<u> </u>	
C. F. K		11 days; 80	21 days; 1, 280	24 days: 2, 560	1.280				640	•		+	+		+	+	<del>!  </del>	Ц
I. O. O			21 days; 640	tr trom			S		180	990	160	+	+	÷	÷	+	<u> </u>	1
T C D		Cays,		99 dorse 640	-				3	3	3	-	1					
H. R. S.		(afen	18 days; 640	26 days; 1, 280					Π	8	330	Ļ÷	H	1	1	1	-	1
S. S. M.			lays;	25 days; 1, 280			640			Π	3	3	8	<u>                                     </u>			Щ	Ш
C. W. C.					1,000	840		640	Ì	i	1	1	+	1	!	€ T	<u> </u>	Ļ
N. E						5		3		320	18		11			<u> </u>	H	
Q. W. Q					-	-			99	T	96		999	25 26	٩	÷	+	-
G. G. L.									Ì		100	40			40 40		Ц	
B. M.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									9		÷		8	+	- 9	
Mis de despessors des marianes de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion	1 Case	in the Lister	Case in the Lister Institute, London, England.	n, England.	, , ,					Positive.	tive.							

Table 1.—Agglutination titers of blood serums of 120 cases of tularamia—Continued

	14 18	8	40 20
ess	g	9	8
Till I	-		9
Years after onset of illness	2		22
after o	4		99
ears 8	က	88	8
×	2	884	8
	-	8833855	136
Months	80	855	260
Mo	m	98388888899	340
	Eighth	320 320 320 320 640 640 640	55
	Seventh Eighth	80 80 320 320 1, 280 1, 280 2, 560 2, 560	918
	Sixth	160 320 320 640 640 640 1,280 1,280 1,280 2,560	824
	Fifth	88 822 83 646 646 88 88 88 88	723
		222222222 2222222222222222222222222222	730
Week of illness	Fourth	22 days; 24 days; 25 days; 25 days; 25 days; 27 days; 27 days; 27 days; 28 days; 28 days; 28 days; 28 days; 29 days; 20 days; 20 days; 20 days; 20 days; 21 days; 22 days; 22 days; 23 days; 24 days; 25 days; 27 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28 days; 28	
W eek		5888888888888888	450
	Third	15 days; 16 days; 17 days; 17 days; 17 days; 18 days; 18 days; 20 days; 20 days; 21 days; 21 days; 21 days; 21 days; 21 days;	
	Second	12 days; 40 12 days; 540 14 days; 50 14 days; 640	155
	First		0
	Cases	02 cases, teshed only once each	Average

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## (2) NONAGGLUTINATION OF VARIOUS ORGANISMS BY HUMAN AND ANIMAL TULARÆMIC SERUMS

Human tularæmic serums of high titer have been tested for agglutination of the following organisms with negative results: B. typhosus, paratyphoid A, paratyphoid B, B. dysenteriæ, B. pestis, meningococcus, pneumococcus, and Proteus X₁₉.

The serum of a rabbit immunized against tularense strain 12, agglutinated tularense in all dilutions from 1:10 to 1:2,560, but failed to agglutinate B. typhosus or B. pestis in dilutions of from 1:10 to 1:320.

The serum of a rabbit immunized against tularense strain 38, agglutinated tularense in all dilutions from 1:10 to 1:2,560, but failed to agglutinate B. typhosus, paratyphoid A or paratyphoid B in dilutions of from 1:10 to 1:160.

The serums of five rabbits immunized against tularense strains 38, 45, 26, 13, and 12, and having anti-tularense titers of 1,280, 2,560, 2,560, 5,120, and 5,120, respectively, failed to agglutinate B. typhosus in dilutions from 1:10 to 1:160.

### (3) NONAGGLUTINATION OF TULARENSE BY NONTULAREMIC HUMAN AND ANIMAL SERUMS

Of 500 serums received for routine Wassermann examination and tested also for agglutination of tularense in dilutions of 1:10, 20, and 40, 15 agglutinated in maximum dilution of 1:10, but were negative to the Wassermann test; 5 agglutinated in maximum dilution of 1:20, 2 of which gave a strong Wassermann; none agglutinated in dilution of 1:40; 61 serums positive to the Wassermann and 419 serums negative to the Wassermann failed to agglutinate in dilutions of 1:10 and higher.

The following human serums also failed to agglutinate tularense in dilutions of 1:10 and higher; 4 typhoid serums having titers of 40, 80, 320, and 640, respectively, and 2 typhus serums having titers of 2,000 and 160, respectively, for Proteus  $X_{19}$ .

The serum of a rabbit immunized against B. typhosus agglutinated B. typhosus in all dilutions from 1:10 to 1:5,120, but failed to agglutinate tularense in dilutions from 1:10 to 1:320. Serums of 10 rabbits immunized by intravenous injection of commercial typhoid vaccines agglutinated B. typhosus up to 1:1,600, but failed to agglutinate tularense in dilutions from 1:10 to 1:160.

Serums of 11 rabbits immunized against washed red cells of a sheep while preparing hemolytic amboceptor failed to agglutinate tularense in dilutions of 1:10, 20, and 40.

Serums of 14 normal rabbits failed to agglutinate tularense in dilutions of 1:10, 20, 40, and 80.

Through the cooperation of Dr. William Charles White a tularense suspension was submitted to Dr. David Perla, of the Henry Phipps Institute, to whom we are indebted for making agglutination tests with the sera of 51 cases of pulmonary tuberculosis.

At the time when the agglutinations were made the tuberculocomplement fixation, the Wassermann, the Caulfield inhibitive test, and, in some cases, the agglutination test with tubercle bacilli were carried out.

The sera were tested in dilutions of 1:5, 10, 20, 40, and 80. Thirteen sera agglutinated tularense completely in dilution of 1:5, one agglutinated completely in dilution of 1:10; none agglutinated completely in dilution of 1:20 or higher. In a few instances a trace was recorded in dilutions as high as 1:40.

There seemed to be no relation between the agglutination with tubercle bacilli and that with tularense when tested with human tuberculous sera.

Dr. Stuart Mudd, of the Henry Phipps Institute, very courteously tested for agglutination of tularense with antitubercle rabbit sera prepared by Dr. J. Furth, also of that institute, with the following results: (1) Of two rabbits immunized against two human strains, respectively, one agglutinated tularense partially in dilutions of 1:10, 20, and 40, while the other failed to agglutinate in all dilutions; (2) of two rabbits immunized against a hovine strain, one agglutinated tularense completely in dilution of 1:10 and partially in 1:20, while the other failed to agglutinate in all dilutions.

## (4) NONAGGLUTINATION OF ABORTUS AND MELITENSIS BY HUMAN AND ANIMAL SERUMS

Of 100 human tularemic serums tested for agglutination of tularense, abortus, and melitensis, 63 failed to agglutinate abortus or melitensis, although they agglutinated tularense (see Table 2). The 37 which agglutinated all three organisms are discussed under the next heading.

Of 500 human serums received for routine Wassermann examination and tested also for agglutination of melitensis by Evans, 11 agglutinated in maximum dilution of 1:10, 2 agglutinated in maximum dilution of 1:20, 2 in maximum dilution of 1:40, and 1 in maximum dilution of 1:320; 484 failed to agglutinate in dilutions of 1:10 or higher.

Serums of the 14 normal rabbits which failed to agglutinate tulerense, falled also to agglutinate abortus and melitensis in dilutions of 1:10, 20, 40, and 80.

 ${\bf Table} \ \ 2. {\color{blue} --} One \ hundred \ human \ tularamia \ serums \ tested \ for \ cross \ agglutination \ of \ abortus \ and \ melitensis$ 

	Number showing cross agglutina- tion of abortus and melitensis	Number showing no cross agglutina- tion of abortus and melitensis
10	0 0 0 0 0 0 15 12 7 3	0 3 8 7 9 16 12 7 1

Table 3.—Cross agglutination by human tularamia serums from 37 cases

		•			
Case	Time after onset	Tula- rense	Abortus	Meli- tensis	Treatment of serum
R. R. S	18 days	640	40	40	Unheated, glycerin.
	26 days	1, 280	1, 280	640	Do.
	7 months	640 640	320 320	320 320	55°, no preservative. Do.
	1 year	320	320	320	55°, trikresol.
	1 year 4 months	640	320	320	Do.
B. F. T	3 days	0	0	0	Unheated, glycerin.
	9 days	80 1, 280	0 160	320	Do. Do.
	23 days		160	320	Unheated, paracresol.
	42 days	320	160	160	Unheated, trikresol.
E. W. M	5 days	1 0	0	0	Unheated, glycerin.
	11 days	160 320	0 160	160	Do. Do.
	25 days		320	160	Unheated, paracresol.
	71 days	320	80	160	Unheated, trikresol.
	87 days	320	80	80	Unheated, glycerin.
J, W. G	40 days	640	160	160	Do.
A. M	53 days	640 160	160 0	160	Unheated, trikresol. Unheated, no preservative.
A. WI	24 days	2,560	160		Do.
	33 days	1, 280	80	80	55°, no preservative.
	79 days	640	. 80 . 80	40	Do.
R. D	23 days	640	. 80 80	160	Do.
F. C. S. S. M.	49 days	1, 280 1, 280	80 80	80	Do. Unheated, glycorin.
	46 days	640	40	80	Do.
A. L	45 days	2,560	80	80	Do.
G	56 days	640	80	160	Unheated, trikresel.
8. T. M J. W. M	26 days	1, 280 640	80 80	160 80	Do. Do.
J. W. IVI D. R	10 days	1, 280	80	80	Unheated, glycerin.
D. B. L. R. B.	32 days	1, 280	80	80	55°, no preservative.
(Dr. F)	17 days	640	80	80	Do.
Š. II	32 days	320	80	40	Unheated, trikresol.
D. F	24 daysdo	320 640	80 40	160 20	Do. Do.
R. McK	28 days	1, 280	40	80	Do. **
A.S. J. W. H.	14 days	640		40	Unheated, glyceria.
<u>J. W. H </u>	43 days	2, 560	20	40	Do
H. D	44 days	1, 280 320	40 40	40 40	Unheated. Phenol.
Ŷ	24 days	320	40 40	40	Do.
T	27 days	320	40	40	D6.
C. W	19 days.	320	20	10	Unheated.
J. B. K St. F. H	56 days	640	20		Do.
E. C. W	37 days	320 640	20 20	40 20	Trikresol. Unheated.
F B	do	640	20	10	Do.
L. F	36 days	1.280	20		Do
U. II	1 az days	320	20	20	Do.
J. B.	64 days	320	20 10		Do.
C. R. W	28 days	320 320	10		Do. Do.
y. F. s.	21 days	320	10		Unheated, glycerin.
Ö. I	36 days	320	10		Do.
	1				

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### (5) CROSS AGGLUTINATION OF ABORTUS AND MELITENSIS BY HUMAN TULARÆMIA SERUMS

Cross agglutination of abortus (the cause of contagious abortion of animals) and melitensis (the cause of undulant fever) was noted in dilution of 1:10 or higher in 37 of 100 cases of tular amia as act forth in Tables 2 and 3.

Analysis of these tables shows the following: No serum with a tularense titer less than 320 gave cross agglutination of abortus or melitensis; of serums showing anti-tularense titers of 320, 640, 1280, and 2560, the number which gave cross agglutination of abortus and melitensis was 37, while the number which gave no cross agglutination was 36, thus showing a failure of high-titer serums consistently

#### Tularaemia, human(r.r.s.)Agglutination DAYS MONTHS 20 28 7 9 12 16 21 0 TITRE ONSET 1280 640 320 160 80 40 20

CHART 1.—Showing agglutination of tularense, abortus, and melitensis to the "mile, or nearly the same, degree by a human tulain mic seium

to show cross agglutination; as a rule, a tularamia serum agglutinated tularanse in much higher dilution than it agglutinated abortus or melitensis; exceptions to that rule were noted in the first three serums listed in Table 3, in which tests are seen where tularanse serums agglutinated tularanse, abortus, and melitensis to the same or nearly the same degree.

The significance of these observations, from the viewpoint of diagnosis, is that a suspected tularemia serum should be tested, not only for agglutination of tularense but also for agglutination of either abortus or meliteneis. It has been established by Evans ¹ that a serum which agglutinates one of the latter two organisms will also agglutinate the other.

¹ Evans, Altes C: Studies on Brusella (Alkaligenes) Melitensis: Hyg. Lab. Bull. 143, United Stetes Rubbic Health Service, 1925.

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If the tularense titer of a serum is much higher than the abortus or melitensis titers, no doubt is left as to the diagnosis of tularæmia; moreover, at the end of one hour's incubation, a tularæmia serum will have nearly reached its maximum tularense titer, while the abortus and melitensis reactions will be just beginning.

Serums showing a very high degree of cross agglutination (see Chart 1) must be subjected to agglutinin absorption tests, by which it will be found that a tularemia serum, after absorption by tularense, will no longer agglutinate tularense, melitensis, or abortus; but a tularemia serum, after absorption by either melitensis or abortus, will still agglutinate tularense to the full titer at which it agglutinated tularense before being absorbed.

ANTI-TULARENSE RABBIT 38: AGGLUTINATION DAYS MONTHS 3 1/2 55 ٥ 7 10 14 15 75 9 TITRE NJECTED 2560 RENSE 1280 640 320 160 08 40 20 10

CHART 2.—Showing agglutination of tularense, abortus, and melitensis by the serum of a labbit immunized against tularense

(6) CROSS AGGLUTINATION OF ABORTUS AND MELITENSIS BY SERUMS OF RABBIT, SHEEP, HORSE, AND ROOSTER AFTER IMMUNIZATION AGAINST TULARENSE

Table 4 shows that there is the same agglutinin response in animals immunized in the laboratory against tularense that there is in man after acquiring the disease in nature.

Animals immunized against tularense developed agglutinins for tularense, abortus, and melitensis, but the degree of agglutination for tularense, was, as a rule, much higher than that for abortus or melitensis. In sheep 2, however, the titer for tularense and abortus reached the same height (1:320). Chart 2 shows that in rabbit 38

Table 4.—Cross agglutination of abortus and melitensis by antitularense serums of rabbit, sheep, horse, and rooster

		,			Agglutination titers	titers	Throotmant of contin
Antitularense serums	Date injected	Date bled	Date tested	·	Tularense Abortus Melitensis	Melitensis	Teatment of section
Rabbit 38, injected intravenously; strain 38.	Mar. 20, 1925	Mar. 27, 1925	Apr. 5, 1925	25 2, 560	320	320	56°, trikresol.
Rabbit 45-1, injected intravenously; stram 45	Mar. 23, 1925 Mar. 13, 1925 Mar. 20, 1925	Mar. 30, 1925	Apr. 5, 1925	25 2, 560	091 00	160	До.
Rabbit J5. injected subcutaneously; strain J. Sheep 2, injected subcutaneously; strain M. Sheep 2, injected subcutaneously; strain M. Sheep 4, injected subcutaneously; strain V. Sheep 4, injected subcutaneously; strain V.	Mar. 23, 1925 Feb. 10, 1926 June 26, 1923 July 25, 1922 Mar. 10, 1924	Feb. 27, 1926 July 31, 1923 Aug. 9, 1922 Mar. 25, 1924	Feb. 27, 1926 Aug. 8, 1923 Jan. 26, 1924 Oct. 26, 1926	23 1, 280 24 320 25 1, 280	160 160 160 320 320 320	88 89 99 99 99 99	Unheated, no preservative. 65°, trikresol. Do. Do. Do. Do. Do.
	Mar. 4, 1924	Mar.				2	Do.
Horse 1, serum before injection Horse 2, injected subcutaneously; strain V	Apr. 1, 1924	Mar. 4, 1924 Apr. 25, 1924	Oct. 29, 1925 Oct. 29, 1925		20 320 80	80. 160	Do. Unheated, ao preservative.
Horse 2, serum before injection. Rocster L, injected fatravenously; strain 26.		Mar. 25, 1924 May 4, 1926	Oct. 29, 1926 July 12, 1925	25 10 25 1,280	0 0 0 160	320	66°, trikresol. Unheated, no preservative.
Rooster R, injected intravenously; strain 38		May 4, 1925	May 30, 1925		640 80	08	Do.
Rooster M, injected intravenously; strain 13	Apr. 26, 1925 Apr. 23, 1925 Apr. 24, 1925	May 4, 1925	May 30, 1925		640 80	80	Do.

Norg.—Blood sefrum collected from rabbits 38 and 45-1 and from sheep 2 before immunization falled to agglutinate fularense, abortus, or melitensis in dilutions of 1:10.20, and 40.
Blood serum of rabbits 7 and J-5 was not tested for agglutinins before immunization. Blood serum of the roosters collected before immunization falled to agglutinate abortus and melitensis in dilutions from 1:10 to 1:320.

the persistence of agglutinins was longer for tularense than for abortus or melitensis.

## (7) CROSS-AGGLUTINATION OF TULARENSE BY SERUMS FROM CASES OF UNDULANT OR MALTA FEVER

Cross agglutination of tularense by serums from cases of undulant fever was noted in three of eight serums tested (see Table 5); but the degree of cross agglutination was so small as to leave no doubt as to the diagnosis. In the case of D. Z., when his melitensis titer was 2,560 his tularense titer was 80; but six months later, when his melitensis titer had fallen to 160 his tularense titer was zero. In the case of B. T. S., when his melitensis titer was 1,280 his tularense titer was 20; in the case of – W., when his melitensis titer was 640, his tularense titer was 10.

Case	Time after onset	Tular- ense	Abortus	Meli- tensis	Treatment of serum
D. Z	30 days	80 0 20 0 0 0 0 0	2, 560 160 640 160 320 80 320 320 640	160 1, 280 640 640 320 20 160	Unheated, no preservative. Do

Table 5.—Cross agglutination by serums of cases of undulant fever

The serum from case D. C. F. is of special interest to the diagnostic laboratory in that the serum came to us with a request for an agglutination of tularense. The attending physician had suspected tularemia because the patient had been dressing rabbits; but he had overlooked the occupation of his patient, which was that of butcher. Had we merely complied with the request and tested the serum against tularense we would have missed the diagnosis. We tested the serum, as is our routine procedure, against both tularense and abortus and found agglutinins for abortus but none for tularense, thus reaching the correct diagnosis in the case.

## (8) CROSS AGGLUTINATION OF TULARENSE BY SERUMS OF RABBITS IMMUNIZED AGAINST ABORTUS AND MELITENSIS

Table 6 shows that rabbits immunized against abortus and melitensis developed agglutinins for tularense just as man and animals

¹ The method of carrying out the test of these serums differed somewhat from that generally used. The antigens were twice as dense, and incubation was at 56° C. for four hours.

¹ Evans, Alice C.: Studies on Brucella (Alkaligenes) Melitensis; Hyg. Lab. Bull. 143, United States Public Health Service, 1925.

immunized against tularense develop agglutinins for abortus and melitensis, but the agglutinin titer for abortus and melitensis was higher and persisted longer than for tularense (see Chart 3).

#### (9) AGGLUTININ ABSORPTION OF HUMAN TULARÆMIA SERUMS

Table 7 presents the agglutinin absorption reactions of four tularæmia serums and shows that they reacted as follows:

### AGGLUTINATION:-ANTI-ABORTUS RABBIT 426-4 DAYS MONTHS 31/2 15 9 TITRE 2560 1280 640 320 160 80 40 20 10

CHART 3.—Showing agglutination of tularense, abortus, and melitensis by the serum of a rabbit immunized against abortus

(1) After absorption by tularense they lost all agglutinins for tularense, abortus, and melitensis; (2) after absorption by abortus, they retained all agglutinins for tularense, but lost all agglutinins for abortus and melitensis; (3) after absorption by melitensis they retained all agglutinins for tularense, lost all agglutinins for melitensis, and showed a reduction of agglutinins for abortus to at least 6 per cent.

TABLE 6.—Cross agglutination of tularense by serums of rabbits immunized against abortus and melitensis

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Rahhit	, ,			Aggl	Agglutination titers	iters	
	Date injected	Date bled	Dafe tested	Tular- ense	Abortus, 426,	Tular- Abortus, Meliten- ense 426, sis, 428	Treatment of serum
426-4, injected intravehously with abortus, 426	June 30, 1925	July 15, 1925	July 24, 1925	320	2, 560		1,280 55° C. ½ hour, trikresol.
450-59, injected intravenously with abortus, 466	Aug. 4,1925	Aug. 12, 1925	Aug. 16, 1925	160	1,280		1, 280 55° C. trikresol.
İ	Aug. 4, 1925	ĝ.	Do.	160	1,280	2, 560	Dσ.
eze-o injeved introverously with melitensis, 428	June 30, 1925 July 7, 1925	- June 30, 1925 July 15, 1925 Aug. 9, 1925 July 7, 1925	Aug. 9, 1925	&	2, 560	2, 560	Dø.
Notation of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa							

NOTE.—None of the above rabbits were tested for agglutinins before immunisation. Serums 456-50 and 456-53 failed to agglutinate B. typhosus in dilutions of 1:10, 20, 40 and 80.

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Table 7.—Agglutinin absorption reactions of four human antitularense serums

	Treatment of antigen		0.1 per cent formalin. 0.2 per cent formalin. Living.	0. 1 per cent formalin. 0. 2 per cent formalin.	0. 1 per cent formalin. 0. 2 per cent formalin.	0.2 per cent formalin, 0.2 per cent formalin, Do.
	Absorbing dose of enti- gen per 0.5 c. c. of serum		12 c. c. of 19,000 turbidity. 0. 1 per cent formalin. 15 c. c. of 46,000 turbidity. 0. 2 per cent formalin. 16 c. of 46,000 turbidity. 0. 2 per cent formalin. do	4 c. c. of 10,000 turbidity. 3.5 c. c. of 40,000 turbidity.	6 c. c. of 10,000 turbidity- 8 c. c. of 40,000 turbidity-	8 c. c. of 10,000 turbidity- 10 c. c. of 40,000 turbidity- 16 c. c. of 25,000 turbidity-
	Melitensis No 423	0 20 40 80 160 320 640 1, 280 2, 560	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	4000 4000 4000 4000 6000 8000 8000
Agglutination of cultures	Abortus No. 426	02040801603206401, 2802, 560	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 1 0 0 0 0 0 0 0 0 0 0 0 0	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Tularense, strain V	10.20/40/80/160/320/640/1, 230/2, 560/10/20/40/80/160/320/040/1, 250/2, 560/10/20/40/80/160/320/640/1, 230/2, 560	40 41 40 40 40 40 40 40 40 40 40 40 40 40 40	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40440 40440 40440 40440 40440 4000 400	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	Antitularense serums	Dilutions, 1 in	R. S., bled July 30, orbed	Not absorbed Absorbed by tulerense V Absorbed by tulerense V Serum third day of illness (8) Case E, W. M., bied Jine 5,	orbeded by tularem ed by tularem lith day of illn W. G., blec	1,00,000

¹ Unheated, preserved by addition of an equal amount of pure neutral giveerin; tested Aug. 14, 1925.

3 Unheated, preserved with practices); tested June 20, 1923.

5 Unheated, preserved by addition of an equal amount of pure neutral giverin; tested July 5, 1925.

4 Unheated, preserved with trikresol; tested July 6, 1925.

Annissim in absormation reactions of antitularense serums of rabbit, sheap, and rooster Trans.

									1	`	Agg	買	patic	o uc	feul	Agglutination of cultures		'										
Antitularense serums		1	Tul	aren	8e, st	Tularense, strain V	<b>&gt;</b>	1		· ·		Ab.	ortu	Z	Abortus No. 426	9					Me	luten	828	Meltensis No. 428	.38		Absorbing dose of an- tigen per 0.5 c. c. of	of Treatment
Dilutions, 1 in	10 20 40	9.	-61	- <u>2</u> 2	940	1,280	80 160 329 640 1, 280 2, 560 5, 120 10 20	- <del>2</del>	<u>2</u>     8	8	98	160	320	640	1, 280	40 80 160 320 640 1, 280 2, 560 5, 120 10 20	10 5, 1	20 10	8	408	010	9320	9	1,23	2, 3(	4080 160 320 640 1, 230 2, 560 5, 120		
(I) Rabbit No. 38, strain 38, bled Mar. 27, 1925:1 Not absorbed	4		4	4	4	4		<u> </u>		-	4	4	4	•					**	- <del> </del>	4	4	0			-	0	
Absorbed by tularense V.	O 4	0 4	- <b>`</b>	- 4 - 3	6 <del>4</del>	<b>⇔</b> ₹	_ 0,	<del>-</del>	0 6	0 6	5 6	0 6	0 0	0 0		6 6	<u> </u>	5 6		5 5	<del>-</del> -	0 0					0 9 c. c. of 10,000 turbidity.	9 9
Absorbed by melitensis	• च्छा • च्छा	·	4.	4	—————————————————————————————————————	. 4			-	*	4	-	0	-	. 3				6		-	0	_					
Reabsorbed by meliten-	+	<del>-</del>	÷	_	T	****	***	-69	3	***	4	6.0	-	6	9		-	0	0	0	-	_	0		<u> </u>	-	dodo	Living.
Serum before immuniza-	0	-			İ	1		4	-	0	4	_[		Ì	1		+	T	0	0	<del> </del>	-	1		<u> </u>	-	***************************************	
(2) Sheep No. 2, strains 38, 36, 13, bled Aug. 9, 1922; Not absorbed	+#+ € +#+ €	<del></del>	416	#F G	- 68	Φ.				***		46	00	60	į			4.0	40	₩6	40	60	- 67				10 0 of 10 000 turbid.	<u>c</u>
Absorbed by abortus 426.	5	<del>-                                    </del>	2	- ~		0			1 1	- A		اً ا										- 1	;		1		12.5 c. c. of 40,000 tur-	formalin, r- Living.
Reabsorbed by abortus	्या ।	- 41		4	6	0		-		0	9	0	-	0		_	+		0	•	-					_	bidity.	Do.
Absorbed by melitensis	$\dashv$	<del>-                                    </del>	<del>-</del>	<del>-</del>	•	0	ľ	1	<del>- i</del> -	*	<u>ع</u> .		I		į	_	-	1	-6-	\$	-				_	-	dodo	Do.
Reabsgribed by meliten-	+	4	<u>ਚ</u>	স্থা	0	-6	İ	1	Ŧ	N	0	0	-	6	į	_	+	Ť	0	0	-	-	0		-	<u> </u>	qo	Do.
Serum before immuniza-	0	-	<u> </u>	-	İ	1		+	-	ē	0	0	0	Ì		_	- -	Ť	0	1	<del>-  </del> -	+	_		+	+		
(8) Booster L, strain 26, hed May 4, 1925:4 Not absorbed	40	40	40	40	40	80				46	40	#0 ec	00	00				11	40	40	40	40 00	- 00			- !!	10 c. c. of 10,000 turbid-	6
Absorbed by abortus 426.	<del>य</del> च	4	-		4	60			<del>, ,</del>	6	- 5	0	-5	0	٠		+	1	44	~	_		0	_	-	-	12 5 c. c. of 40,000 turbid-	d- 0.2 per cent
Absorbed by melitensis	4	4	₹	- <del></del>	#	-		1	<del>-</del> -	. 6	-	6	0	0	٠		+	<del>-</del>	0	0	-	-	_			+	20 c. c. of 25,000 turb	
Serum early in immuni- zation.	<del>4</del>	-	<del>-</del>	-		-	1	<u> </u>	<del>-</del>	9	9	0	0 1	Ī	į	<u> </u>	- -	Ť	0	0	<del>-</del>	-		1	<u></u>	+		<del>-</del>
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1 Heated 56°, 14 hour preserved with trikresol; tested July 19, 1925.
2 Heated 56°, 14 hour preserved with trikresol; tested Aug. 12, 1925.

* Unheated, no preservative; tested July 12, 1925.

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## (10) AGGLUTININ ABSORPTION OF ANTITULARÆMIC SERUMS OF RABBIT, SHEEP, AND ROOSTER

Table 8 shows that antitularemic serums of the rabbit, sheep, and rooster reacted as follows: (1) After absorption by tularense they lost all agglutinins for tularense, abortus, and melitensis; (2) after absorption by abortus they retained all agglutinins for tularense, but lost all agglutinins for abortus and melitensis, except that in case of the rooster some agglutinins for melitensis remained which probably would have been removed by reabsorption; (3) after absorption by melitensis they retained all agglutinins for tularense, lost all agglutinins for melitensis, and showed a reduction of agglutinins for abortus to 50 per cent in the rabbit, to 12.5 per cent in the sheep, and to at least 6 per cent in the rooster.

### (11) RECIPROCAL AGGLUTININ ABSORPTION REACTIONS OF FOUR TULARENSE CULTURES

Table 9 shows that three strains of American origin (V, M, and 38) were compared with each other by reciprocal agglutinin absorption and that no differences between them were found. In addition, strain M was similarly compared with strain J, which was of Japanese origin, and no difference between them was found.

## (12) RECIPROCAL AGGLUTININ ABSORPTION REACTIONS OF TULARENSE, ABORT US, AND MELITENSIS

Anti-tularense rabbit 38 was immunized against strain 38, anti-abortus rabbit 426 was immunized against strain 426, and anti-melitensis rabbit 428 was immunized against strain 428. In carrying out the absorption tests, tularense strain V was substituted for tularense strain 38, no difference having been found between them by reciprocal agglutinin absorption tests (see Table 9).

Table 10 shows the following: (1) A tularense serum, after absorption by tularense, lost all agglutinins for tularense, abortus, and melitensis; after absorption by abortus, lost all agglutinins for abortus and melitensis but retained all agglutinins for tularense; after absorption by melitensis, lost all agglutinins for melitensis, retained all agglutinins for tularense, but shows a reduction to only 50 per cent of agglutinins for abortus, even after reabsorption by melitensis. (2) An abortus serum, after absorption by tularense, lost all agglutinins for tularense, but retained all agglutinins for abortus amd melitensis; after absorption by abortus, lost all agglutinins for tularense, abortus, and melitensis; after absorption by melitensis, lost all agglutinins for tularense and melitensis and showed a reduction to 12.5 per cent of agglutinins for abortus. (3) A melitensis serum, after absorption by tularense, lost all agglutinins for tularense, lost all agglutinins for tularense, lost all agglutinins for tularense, lost all agglutinins for tularense, lost all agglutinins for tularense, lost all agglutinins for tularense but retained all agglutinins

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tinins for abortus and melitensis; after absorption by abortus, lost all agglutinins for tularense and abortus and showed a reduction to about 12.5 per cent of agglutinins for melitensis; after absorption by melitensis, lost all agglutinins for tularense, abortus, and melitensis.

#### TECHNIQUE

Sources of cultures.—Six tularense cultures isolated by Francis were employed. Five of these came from cases of tularæmia and one from a rabbit. Their histories are as follows: V came from the spleen of a woman who died in Washington, D. C., December 30, 1923; M from the liver of a rabbit obtained from the Washington, D. C., market in January, 1923; 38 from an inguinal gland of a girl seen in Utah in September, 1920; 26 from the blood of man seen in Utah in July, 1920; 13 from a cervical gland of a boy seen in Utah in July, 1920; and J from a human gland received January 5, 1926, from Dr. H. Ohara, Fukushima City, Fukushima, Japan.

Abortus 426 is without definite history other than that Dr. K. F. Meyer obtained it from the Royal Army Medical Corps, London, England. It is not certain whether it was isolated in Austria.

Melitensis 428 was obtained from Dr. K. F. Meyer, who, in turn, received it from Dr. E. Sergent, Institut Pasteur d'Algérie, Tunis. It is not certain whether it was isolated in Tunisia.

Antiserums.—The human tularæmia serums studied were recieved at the Hygienic Laboratory, United States Public Health Service, Washington, D. C., for routine testing for the diagnosis of tularæmia.

The rabbit, sheep, and horse are available for the production of antitularemic serums. The rabbit is the animal of choice on account of the well-established absence of agglutinins in its normal serum. If a sheep is to be used, its serum should be tested for agglutinins before immunization. The horse is the least desirable on account of the presence of agglutinins in the normal blood. Data relative to the preparation of the various antiserums used in this work will be found in the tables.

The human serums were usually tested without preliminary heating to 55°, although throughout the tables numerous instances are noted where the serums were heated.

Heating the serums was regarded as immaterial, it having been noted that heat did not reduce the titer of the specific agglutinins or of the cross agglutinins.

Preservation of the serum with trikresol or by the addition of an equal amount of pure, undiluted, neutral glycerine was without effect on the the agglutinins. The clouding effect of too large an amount of trikresol was avoided by adding not more than 0.1 per cent. Glycerin has the advantage of clearing the serum.

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Antitularense serums	Tulare	ense, st	Tularense, strain V				T	ular	ense,	<i>Tularense</i> , strain M	in M					La	lares	186, S	<i>Tularense</i> , strain 38	88		gen per 05 c c. of	f Treatment of autigen
Dilutions, 1 in	10 20 40 80 160 3;	20 640	80 160 320 640 1, 280 2, 560 5, 120 10 20	560 5, 1	1 22	2040	8	180	8	101,2	302,	5605,	120	10%	욯	8010	3033	040	1,250	2, 56	80 160 820 640 1, 280 2, 560 5, 120 10 20 40 80 100 320 640 1, 250 2, 560 5, 120		
(1) Fliven No. 4, strain V, then Mar. 27, 1924:1 Not absorbed. Absorbed by tularense V.	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	40	40	-	40	40	40	40	40	00	40	-	0	40	40	40	40	40	40			12 c. c. of 10,000 turbidity	
Absorbed by tularenseM Absorbed by tularense 38. Serun before framtniza-	000	00	00		204	000	000	00	00		-	+++	111	NO4	000	000	30	00	0			op	AA 
(2) Rabbit No. 11, strain M, Lled Ang. 11, 1923:1 Not absorbed	4 4 4	4		0		4	4	#	<del></del>				-	4	4		<del></del>	4	4			0	
Absorbed by tularense W. Absorbed by tularense M. Absorbed by tularense 38.	000 000 000 000	000 000		$\frac{111}{111}$	111	000	000	000	000	000	999	+++	111	000	000	000	000	000			111	12 c. of 10,000 turbidity.	AÄÄ ZII
bled Mar. 27, 1925: 3	4 4 4	4	4	₩	4	4	4	4	4	4	4	4	0	4	4	₩.	<del>-</del>	4	4				- 0.1% forma-
Absorbed by tularense V. Absorbed by tularense M. Absorbed by tularense 38. Serum before immuniza-	0000	800			1111	0000	0000	000	-		+++	+++	$\overline{1111}$	0000	0000	0000	000					12 c. c. of 10,000 turbidity.	ÖÖÖ ÖÖÖ
LADE.	Tular	Tularense strain J	train J	-	T												<del></del> -						<del> </del>
(4) Rabbit J, strain J, bled Pebruary 4, 1926. Not absorbed	4 4 4	4	-			<u> </u>	4	4	4		60	-	6				<u> </u>				<u>i</u>		0 1% forma
Absorbed by J. Absorbed by M. (5) Rabbit No. 11. strain M.	00	-			11	00	00	00	99	#	+	+	计	++	中	$+\!\!+$	+					12 c. c. of 10,000 turbidity.	7- D0.
bled Aug. 11, 1928: 6 Not absorbed	4 4 4	4	<del></del>	- ;	1	-4	4	4	41	4	60	-	-6		1	$\dashv$			ļ				0.1% forma- lin.
Absorbed by MAbsorbed by J	000000000000000000000000000000000000000		54		11	00	00	00	00	╫	+	+	$\dagger \dagger$	╫	JJ.	+	+	II		11	11	12c.c.of10,000turbidity-	y- D0.
Unheated, proserv	ved with trikresol; tested Sept. 21, 1925.	esol; te	sted Se	pt. 21	192 ted S	ė.	83,5	1925.				, He	ated	55°	00	757.7	hr., 1 1r., 1	prese	rved	with	tribr	$4$ Heated 55° C, $1_2$ in., preserved with trikresol; tested Feb. 13, 1993. $1$ Heated 55° C, $1_2$ in., preserved with trikresol; tested Feb. 13, 1928.	3.

1 Unheated, preserved with trikresol; tested Sept. 21, 1925.

2 Heated 55° O., ½ hr., preserved with trikresol; tested Sept. 23, 1925.

8 Heated 55° O., ½ hr., preserved with trikresol; tested Sept. 25, 1925.

TABLE 10,--Reciprocal agglutinin absorption reactions of tularense, abortus, and melitensis

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### A # A # A # A # A # A # A # A # A #		Absorbing dose of antigen per 0.5	c. c. of serum				
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¹ Heated 55° C. ½ hour and preserved with trikresol; tested July 19, 1925.

¹ Heated 55° C. ½ hour and preserved with trikresol; tested Aug. 9, 1925.

¹ Heated 55° C. ½ hour and preserved with trikresol; tested Aug. 9, 1925.

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Antigens.—Tularense, abortus, and melitensis cultures were grown on the same medium—glucose cystine agar—in Blake bottles; at the end of 72 hours the growth was washed off in normal saline solution by rocking the bottle in the hands; the suspension was thrown down in the centrifuge, and the sediment was taken up in normal saline solution to which formalin was added in the proportion of 0.1 per cent tor tularense and 0.2 per cent for abortus and melitensis, although in a few instances living abortus and melitensis antigens were used as noted in the tables. In no instance was an antigen killed by heat.

Turbidity standard.—The density of antigens is expressed in terms of the turbidity standard described in the Standard Methods of Water Analysis, published by the American Public Health Association. This standard is described on page 4 of the editions of 1917, 1920, 1923, and 1925.

"For preparation of the Standard, dry Pears' precipitated fuller's wirth and sift it through a 200-mesh sieve. One gram of this preparation in 1 liter of distilled water makes a stock suspension which should have a turbidity of 1,000.

"Standards for comparison shall be prepared from this stock suspension by dilution with distilled water."

A silica standard having a turbidity of 500, scaled in a glass ampule 10 millimeters in diameter and of 2 c. c. capacity, has been found satisfactory in determining the turbidity of bacterial suspensions. This turbidity was chosen because ordinary type is just legible through this standard. The sample in question is tested in a tube of the same size. Comparison is made by viewing ordinary type through standard and sample.

For example, if 0.1 c. c. of a bacterial suspension requires dilution with 1.9 c. c. of water before its turbidity, when compared in a 10-millimeter tube, becomes the same as the 500 silica standard, then the turbidity of the heavy suspension is considered to be 10,000; if 2.7 c. c. saline solution were required, the turbidity would be 14,000; if 8.8 c. c. of saline solution were required, the turbidity would be 44,500, etc.

For the agglutinin absorption tests it is desirable to have the turbidity of the stock antigens adjusted to some convenient number, such as 10,000, 20,000, 30,000, or 40,000; for example, to adjust a turbidity of 13,500 to 10,000, one would add 3.5 c. c. of saline solution to 10 c. c. of the antigen; to adjust a turbidity of 44,500 to 20,000, one would add 24.5 c. c. of saline solution to 20 c. c. of the antigen, or 12.25 c. c. of saline solution to 10 c. c. of the antigen, etc. It is immaterial at what turbidity the stock antigens are kept, so long as the turbidity is known.

For making agglutination tests, the stock antigens were diluted with normal saline solution to a turbidity of 500 and then added in

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0.5 c. c. amount to each agglutination tube containing 0.5 c. c. of diluted scrum so that agglutination took place in a turbidity of antigen of 250.

Serum dilutions.—The following scheme was followed:

- (1) 0.5 c. c. of serum +2.0 c. c. saline =1:5 0.5 c. c. of (1) +0.5 c. c. antigen =1:10.
- (2) 1 c. c. of (1) +1 c. c. of saline=1:10 0.5 c. c. of (2) +0.5 c. c. antigen=1:20, etc.

Incubation.—Agglutination tests, except as noted in Table 5, were carried out in the water bath at 37° C. for two and one-half hours, after which the tubes were placed overnight in the cold room at a temperature of about 10° C. and readings were recorded the next morning.

Reading the results.—A reading of 4 denotes complete sedimentation and a water-clear supernatant fluid; 3 denotes a supernatant turbidity equal to that in a control tube containing 25 per cent as much antigen as in the tubes in which the test was carried out; 2 denotes a supernatant turbidity equal to that in a control tube containing 50 per cent of the antigen; 1 denotes a supernatant turbidity equal to that in a control tube containing 75 per cent of the antigen.

Absorption.—The minimal absorbing dose of an antigen for its homologous antiserum must be sufficient to reduce the agglutinin content to 3 per cent or less. The absorbing dose is determined by a series of titrations and was found to vary enormously between tularense on the one hand and abortus and melitensis on the other. The removal of agglutinins for abortus and melitensis required 4 to 6 times as much antigen as for the removal of agglutinins for tularense.

Measurement of the absorbing dose was based on turbidity comparison. The necessary amount of stock antigen was placed in a centrifuge tube and thrown down in a centrifuge running at high speed for 1¼ hours; the supernatant fluid was poured off and the packed bacteria were thoroughly mixed with a 1:5 dilution in saline of the serum to be absorbed. The centrifuge tubes were not calibrated nor was any correction made for saline remaining in the packed bacteria mass, as the error from that source was considered to be not only very small but constant for all tests.

The time of absorption was 9 hours in the water bath at 37° C., followed by 12 hours in the cold room at 10° C. The tube containing the absorbed serum was then placed in a centrifuge running at high speed for 1½ hours and the cleared serum was removed with a pipette. It was considered important that throughout the time of absorption and time in the centrifuge the centrifuge tube be covered with a rubber dam to prevent evaporation.

During absorption in the water bath the mixtures were agitated several times.

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Reabsorption was carried out by the same procedure as outlined for absorption,

#### SUMMARY

A study of the blood serums of 120 cases of tularemia tested for agglutination of Bacterium tularense shows (1) a complete absence of agglutinins for tularense in the first week of illness; (2) the constant presence of agglutinins in the second week; (3) an abrupt rise in titer in the third week, reaching its maximum in the fourth, fifth, sixth, or seventh week; (4) a fall in titer in the eighth week; (5) a gradual decline thereafter until at the end of the first year the average titer of 17 cases was 1:136; (6) a persistence of agglutinins in long-recovered cases; and (7) the failure of agglutinins entirely to disappear in any case, even 10, 14, and 18 years after recovery.

Human and animal tularense serums of high titer failed to agglutinate B. typhosus, B. pestis, paratyphoid A, paratyphoid B, B. dysenteriae, meningococcus, pneumococcus, and Proteus  $X_{10}$ . Bacterium tularense was not agglutinated by 480 of 500 serums received at the Hygienic Laboratory for Wassermann test, nor by normal rabbit serums, nor by serums from cases of typhoid fever, typhus fever, and syphilis, nor by the serums of rabbits immunized against B. typhosus.

Cross agglutination of abortus and melitensis by human and animal tularense serums was noted as follows: (1) Of 100 serums from human cases of tularemia, 37 showed cross agglutination which, in three instances, reached the same titer for the three organisms, while the remaining 63 serums, some of which were of high anti-tularense titer, failed to show any cross agglutination; (2) anti-tularense serums of rabbit, sheep, horse, and rooster showed cross agglutination which, in one instance (sheep), reached the same titer for abortus and tularense, but, as a rule, the cross agglutination titers were not only much lower than the tularense titers but were slower in developing in the water bath.

Cross agglutination of tularense was noted (1) by three of eight serums from cases of undulant fever, but the degree of cross agglutination was small; (2) by three serums of rabbits immunized against abortus and by the serum of a rabbit immunized against melitensis.

Agglutinin absorption tests with serums from four cases of tularemia and serums of three anti-tularense animals (rabbit, sheep, and rooster) resulted as follows: (1) After absorption by tularense, they failed to agglutinate tularense, abortus, and melitensis; (2) after absorption by abortus they failed to agglutinate abortus and melitensis, but agglutinated tularense to the original tularense titer of the unabsorbed serum; (3) after absorption by melitensis they failed to agglutinate melitensis, agglutinated tularense to the titer of the

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unabsorbed serum, and varied in their behavior toward abortus as tollows. One in man case and one rooster failed to agglutinate abortus; in the rabbit the liter for abortus was reduced to only 50 per cent; in the sheep the liter for abortus was reduced to 12.5 per cent; and in one human serum the liter for abortus was reduced to 6 per cent.

Reciprocal agglutinin absorption tests carried out with three strains of tularense isolated in the United States and one strain isolated from human virulent tissue received from Japan showed no difference between the strains.

Reciprocal agglutinin absorption tests carried out with a culture of tularense, a culture of abortus, a culture of melitensis, and their antiserums prepared from rabbits resulted as follows: (1) Tularense was readily differentiated from abortus and from melitensis: (2) abortus was readily differentiated from melitensis; and (3) an unexpected development was that the tularense serum differentiated abortus and melitensis, reacting as an abortus serum. The same tendency to react as an abortus serum was noted in the absorption reactions of one human tularense serum.

#### CONCLUSIONS

The conclusions reached are—(1) That, on account of the frequent cross agglutination between tularense, on the one hand, and abortus and melitensis, on the other, serums from suspected cases of tularemia and undulant fever should be tested for agglutination of tularense and either abortus or melitensis, unless the clinical history points definitely to a recognized source of infection for tularemia or undulant fever.

- (2) That a serum which shows a marked difference in titer for tularense, on the one hand, and for abortus or melitensis, on the other, can usually be classed by the higher titer as due either to tularæmia or to one of the varieties of Brucella melitensis.
- (3) That a serum which agglutinates all three organisms to the same or nearly the same titer should be subjected to agglutinin absorption tests.

#### CURRENT WORLD PREVALENCE OF DISEASE

REVIEW OF THE MONTHLY EPIDEMIOLOGICAL REPORT ISSUED APRIL 15, 1926, BY THE HEALTH SECTION OF THE LEAGUE OF NATIONS' SECRETARIAT ¹

An outbreak of influenza occurred in England and Wales toward the end of March; it reached its maximum in the second week of April and rapidly diminished in the succeeding two weeks. This is the second outbreak to occur in England during the past winter, the former outbreak having occurred in December. The Epidemiological

¹ From the Office of Statistical Investigations, U. S. Public Health Service.

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Report notes that "the interval between the outbreak which took place at the beginning of December and the present one has been of 16 weeks, which is exactly the interval between maxima of the epidemics of July, 1908, November, 1918, and March, 1919." During the recent outbreak the general mortality in 105 towns in England and Wales rose from 12.8 per 1,000 in the week ended March 20, to 15.0° in the week ended April 10, and the deaths from influenza increased from 136 in the week ended March 20, to 302 in the week ended April 17. The increase in mortality was not so sharp as that which accompanied the December outbreak, when the death rate in the towns rose to 17.9 per 1,000.

Glasgow, Scotland, suffered severely from an influenza outbreak at the time when England was affected, and the general mortality rate rose to the high point of 30 per 1,000 in the week ended April 3, considerably higher than for any week during the December outbreak. Edinburgh gave no indication of any unusual prevalence of influenza in March or April, although it is less than 50 miles from Glasgow.

General mortality and deaths from influenza in 105 towns in England and Wales, in London, and in Glasgow

	Deathsin	105 towns	Deaths 11	n London	Deaths in Glasgow		
Week ended—	All causes, rate per 1,000	Number from influenza	All causes, rate per 1,000	Number from influenza	All causes, rate per 1,000	Number from influenza	
March 20	12.8 13.9 15.0 15.1 14.3 13.2 12.6	136 186 223 294 302 209 166	13.1 13.9 15.2 15.3 14.3 12.8 12.6	27 48 74 59 35 28	18.1 23 7 31.0 25 6 22.8 17.9 16 7	24 67 81 45 20 13	

The reports available from the large continental European towns for March and the early part of April did not indicate any general increase in influenza coincident with that in England.

Influenza deaths and the general mortality declined during April in the United States. The peak of the influenza outbreak was reached in the week ended March 27, when the death rate from all causes for 68 large cities was 19.4 per 1,000, after which a continuous decline in mortality was reported. The death rate for the 68 cities had dropped to 14.4 per 1,000 during the week ended May 1.

Plague.—The number of plague deaths in India during February was nearly double that reported for the previous four weeks. About 60 per cent occurred in the eastern section of the Punjab and in the United Provinces, "where the season of maximum incidence is April and March, respectively." The total deaths numbered slightly more than in February, 1925. "The rainfall, which had been deficient

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during the previous months throughout Northern India," says the Report, "exceeded the normal in the United Provinces and the Eastern Punjab during February and the beginning of March. High atmospheric humidity at this season of the year in these areas is favorable to the extension of plague."

	19	1926		
Province	Jan. 3-30	Jan. 31- Feb. 27	Feb. 1–28	
North-West Frontier Punjab Delhi. United Provinces. Bihar and Orissa Bengal Assam Central Provinces. Madras Presidency. Hyderabad State Mysore. Bombay Presidency. Burma Other Indian States.	0 1,805 3 2,754 597 0 481 341 341 343 437 751 575 608	5, 217 3 4, 752 967 0 998 346 738 462 1, 080	16 3, 644 28 5, 463 1, 218 0 0 1, 071 603 71 853 470	
Total	8, 682	1, 683 16, 955	14, 518	

Deaths from plague in the Provinces of India

Java reported 1,094 plague deaths during February, which was approximately 400 fewer than in the preceding four weeks. "A continued decline may be expected up to June, which is, as a rule, the month of minimum incidence," states the report.

Plague was less prevalent in Siam and in French Indo-China during the first quarter of the year than in the corresponding season of 1925, only a few cases having been reported in each country.

Plague reappeared in Iraq in December, and during the first 10 weeks of the current year there were 78 cases and 48 deaths reported at Bagdad.

During March, Egypt reported 8 cases of plague, one at Alexandria, one at Suez, one in Minia Province, and 5 in Gharbia Province. These are the first cases reported in Egypt this year.

Four cases of plague were reported in Greece during March, one at Zante, one at Chios, and two at Heraclion.

Russia reported 28 plague deaths in the Uralsk-Boukeiev Government in the period from February 16 to March 16.

The Epidemiological Report makes the following comment concerning plague in Africa:

Madagascar, Kenya, and Uganda have recently been the most important plague centers in East Africa. Mauritius and the Tanganyika Territory have been free from plague for several months. There were 186 plague cases reported in Madagascar during March, against a maximum of 400 cases in December; June is usually the month of lowest incidence in that island. In Kenya and

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Uganda the seasonal fluctuations are more irregular, but there is, revertheless, a definite tendency toward a seasonal maximum between June and September. There were 97 plague cases reported in Kenya during February, as against 49 in the preceding month and 23 during the corresponding month of 1925. In Uganda there were 109 plague cases in January, as against 29 during the corresponding month of the preceding year

Human plague cases were again reported during March in the Union of South Africa, but the outbreak was confined to a small area in the Orange Fice State.

Ecuador reported 16 plague cases at Guayaquil during February, compared with 34 in January.

Cholera.—Cholera cases increased markedly during March in Siam and in French Indo-China. The number of cases in Siam rose from 285 in the two weeks ended February 27 to 838 in the two weeks ended March 13. In French Indo-China an epidemic started in January in Cambodia, and during February 958 cases were reported. The disease spread rapidly and in March 1,666 cases were reported, with Cochin-China also heavily infected.

In India, 6,532 deaths from cholera were reported in February, approximately the same number as in the preceding four weeks. No extension of the infected area took place, but the number of cases in Bengal and the neighboring districts of Bihar increased, while the outbreak in the southern part of Madras Presidency began to decline.

Cholera cases in the principal ports of the Far East from March 14 to April 24, 1926

City	Week ended—								
Calcutta (deaths)	Mar. 20	Mar. 27	Apr. 3	Apr. 10	Apr. 17	Apr. 24			
Madras (dealbs) Rangoon (dealbs) Bangkok Sangon and Cholon Singapore	84 0 0	9 1 90 2 0	91 13 0	1 4 102 21 0	0 6 92 46 1	0 4 107 23 0			

Typhus and relapsing fever.—Russia generally reported a lower incidence of both typhus and relapsing fever during the fourth quarter of 1925 than during the corresponding quarter of 1924. The figures for each geographical area are shown in the accompanying table.

The following data on typhus and relapsing fever in the remainder of Europe are given in the Report:

In Poland there were 540 typhus cases during the four weeks ended March 20, as against 500 during the preceding four weeks and 739 during the corresponding period of 1925. Practically all the cases occurred in the eastern provinces. No case of relapsing fever was reported during the period under review; 324 typhus cases were reported during January in Rumania; there were 231 cases during the corresponding month of the previous year. Small typhus outbreaks occurred in Bulgaria and in the Kingdom of the Serbs, Croats, and Slovenes. Only 5 cases of relapsing fever have been reported during the first quarter of the current year in the whole of Europe outside Russia.

Cases of typhus and relapsing fever reported in Russia during the fourth quarter of 1924 and 1925

	Typhu	s fever	Relapsir	ıg fever
Geographical area	1924	1925	1924	1925
North-Eastern North-Western Western Central Industrial Central Black Soil Middle Volga Lower Volga Viatka-Vietluga Ural North Caucasus Ukraine Crimta Transcaucasia Asiatic Russia Railways, waterways	539 564 651 2,706 718 749 387 410 148 161 1,412 43 99 617 256	283 273 308 1,360 749 408 253 156 117 117 1,760 19 153 177 228	12 61 29 284 385 262 480 19 335 302 416 61 417 76	5 61 66 105 414 191 410 40 1 37 343 474 1 24 189 1 76 102
Total	9, 460	6, 251	3, 145	2, 537

¹ Incomplete data

In the first quarter of 1926 Tunisia reported 180 cases of typhus fever, Algeria 89 cases, and the French Protectorate of Morocco 270 cases.

Smallpox.—A severe epidemic of smallpox occurred in India, in the Province of Orissa, at the beginning of the current year. In two districts, Puri and Cuttack, there were 15,752 cases and 3,088 deaths from smallpox reported during the first eight weeks of the year. In southern India, on the contrary, smallpox was less prevalent than during the early months of 1925.

The incidence of smallpox in England and Wales has been declining since February. During the four weeks ended April 10 there were 687 cases reported, compared with 945 in the preceding four weeks.

Typhoid fever and dysentery.—"Following the very low incidence of typhoid fever which prevailed throughout Europe at the end of 1925 and the beginning of 1926, a slight increase occurred in certain countries of western and central Europe during February and March," states the Report.

Cases of typhoid fever reported in various countries during the first quarter of 1926

Four weeks ended—	England and Wales	Germany	Nether- lands	Belgium ¹
Jan. 30.	138	360	63	42
Feb. 27.	159	426	95	73
Mar. 27.	179	381	71	59

¹ Monthly data.

[&]quot;A similar increase of dysentery cases took place during February in Germany and Poland. The incidence of both diseases continued to diminish as usual during the winter months in Eastern, Southern, and the remainder of Central Europe."

In Japan there were 9,953 typhoid fever cases reported during the first 10 weeks of the year, as compared with 6,808 cases in the corresponding period of 1925. In March the incidence was returning to a normal level.

Lethargic encephalitis.—The incidence of lethargic encephalitis shows no marked change during the first quarter in any of the countries which report on this disease. The number of cases reported during the first quarter of 1926 are compared with the cases in the corresponding period of 1925 in the following table:

Cases of lethargic encephalitis notified in various countries, January-March, 1925 and 1926

Four weeks ended—	Eng and	dan Wal	d Scot les 16 c		Scotland, 16 cities		Nether- lands		Switzer- land		Italy		Sta	United States, 27 States	
	1925	19:	26 1	925	1926	1925	192	26	1925	1926	1925	192	6 192	5 1926	
Jan. 23. Feb. 20. Mar. 20.	185 223 240	2	185 223 186		19 19 26	8 6 26	]	6 4 12	5 4 20	2 1 4	30 63 97	2	2 10° 8 8 0 6	6 41	
Month			s	wed	len	D	enn	arl	c	Belg	jium	C	Czechos	slovakia	
Monti			1925 1926		1926	192	1925 1926		1925	1926		1925	1926		
January February March			;	14 17 22	12 13 20	1	19 22 23		7 2 8	16 15 6	l	0 5 3	14 25 40	4 10 6	

Anthrax.—The following data on the prevalence of anthrax is taken from the Report:

Anthrax cases and deaths reported in various countries during 1924 and 1925

		Cases moto		1925					
Country	1	or aths 1	Total 1924	Total	First quarter	Second quarter	Thu d quarter	Fourth quarter	
AMERICA									
United States (27 States)		0	103	45 2 132	18 57	12 43	9 15	, 6 17	
ASIA IraqAustralia	{	O D O	4 2 4	10 1 3	2 0 2	2 0 0	1 0 0	5 1 1	
EUROPE  Germany  Austria  Denmark  Hungary  Italy	{	000000	118 7 2 8 84 2,728	166 12 2 3 68 1, 656	42 2 0 1 18 222	44 4 0 0 21 245	50 3 2 0 12 689	30 3 0 2 17 500	

¹ C=Cases, D=Deaths,

Data for 11 months only.

Data for 2 months only.

Anthrax cases and deaths reported in various countries during 1924 and 1925—Continued

Country		ases				1925		
		or aths	Total 1924	Total	First quarter	Second quarter		Fourth quarter
EUROPE—continued  Lithuania  Poland  Russia: European Russia Ukraine Transcaucasia Siberia Far Eastorn Republic Central Asia Waterways, railways, and prisons Total Russia  Kingdom of the Serbs, Croats, and Slovenes Switzerland Czechoslovakia	1	000000 000000 00000 00000 000000 000000	14 3 69 17 8, 178 5, 392 396 535 28 617 174 15, 320	5 1 74 11 7,077 5,041 872 175 111 1887 86 13,847 498 70 647 47	0 0 14 2 2 1, 173 864 552 2 2 38 114 2, 238 17 10 0.8 2	1 0 16 3 1,432 845 107 24 4 4 14 18 2,444 99 11 0	3 1 33 3,601 2,172 316 86 5 533 27 6,740 200 29 3 3 22 0	1 0 6 8 3 871 1,160 354 13 0 0

Tuberculosis.—Some interesting data on the decline in tuberculosis mortality during 1925 in many of the large cities of Europe and other parts of the world are presented in the April number of Epidemiological Report, from which the figures in the table below have been taken. The decrease in deaths from tuberculosis as compared with 1924 has been greatest in the cities in Eastern and Central Europe. A few European cities and a number of those outside Europe showed no improvement over 1924 or even a higher death rate.

Mortality from tuberculosis (all forms) in various cities in 1925 and the per cent increase or decrease over 1924

City	Popula- tion in 1925, in thou- sands	Death rate per 100,000	Per cent increase or decrease
Cracow Budapest Bologna Trieste Berlin Copenhagen Venice Hamburg Oslo Brussels Cologne 30 Swiss cities Dresden Stockholm Madrid London Glasgow Leningrad Seville Brunn	224 249 4, 014 587 201 1, 079 258 818 727 1, 166 619 439 783 4, 602 1, 057 1, 055 211	220 291 169 281 121 108 207 114 167 136 121 125 123 107 134 253 107 134 264 264 273	-35.7 -28.9 -20.3 -17.1 -16.6 -15.6 -13.6 -13.2 -11.7 -10.2 -8.0 -7.86 -7.76 -7.76 -7.76

Mortality from tuberculosis (all forms) in various cities in 1925 and the per cent increuse or decrease over 1924-Continued

City	Popula- tion in 1925, in thou- sands	Death rate per 100,000	Per cent increase or decrease
Breslau  Rotterdam  Munich  Barcelona  Belfast  Tallinn  The Hague  Valencia  Moscow  Paris  Amsterdam  Edinburgh  Prague  Strasburg  Genoa  Lillo  Milan  Lodz  Dublin  Vienna 1  Lyons  Pilsen  Sofla 2	438 127 394 260 1,855 2,906 718 427 713 167 335	131 110 117 185 172 274 87 180 157 280 97 133 174 236 219 252 191 293 185 204 201 241 241 241 241	-6.4
AMERICA Sao Paulo Montevideo 1 2 Habana 2 Buenos Aires 3 AFRICA	850	107	+2.9
	423	2 272	+3.8
	399	2 262	+5.6
	1,856	198	+20.7
Alexandria	487	146	-7.0
	819	118	+5.4
Manila.  Bombay ²⁴ Singapore Madras ²⁴ Calcutta ²⁵ Rangoon ²⁴	308	368	-40.3
	1,259	2 94	-22.3
	396	317	+3.9
	527	2 284	+9.2
	1,077	2 228	+15.2
	346	2 434	+24.0

## SMALLPOX AND VACCINATION IN LOS ANGELES, CALIF.

Dr. George Parrish, health commissioner of Los Angeles, Calif., has compiled the following data regarding 1,220 cases of smallpox which occurred in Los Angeles from July 1, 1925, to May 1, 1926.

Number vaccinated in childhood or infancy 1	122
Number vaccinated too long ago to be immune 2	33
Number vaccinated after exposure (too late)	113
Number never successfully vaccinated	952
Total number of cases reported	1, 220

^{*} Ages of patients who were vaccinated in infancy varied from 18 to 75 years

¹ Data for eleven months. ² Pulmonary tuberculosis only. ³ Data for 10 months.

⁴ Data for 51 weeks. ⁸ Data for 49 weeks.

² Time from vaccination to onset of disease varied from 6 to 55 years. Ages of patients varied from 21 to 79 years.

The vaccination histories of the patients who died were as follows:

Never vaccinated	144 5 15
Total	164

During the epidemic three cases presented fairly good evidence that they had previously had smallpox—one 33 years before onset of the disease, one 30 years, and one 13 years before.

### PATIENTS IN HOSPITALS FOR FEEBLE-MINDED

Reports have been received by the Public Health Service from 20 institutions for the care of feeble-minded persons, located in 13 States. The data given below are for the month of March, 1926. The number of patients in these institutions on March 1, was 13,013, including those on temporary leave; on March 31, there were 13,060 patients, a gain of 0.36 per cent. The increase in the number of patients on temporary leave (35) equals three-fourths of the increase in the number of patients (47). The average number of patients on temporary leave was 632, or 4.8 per cent of the total. Forty-eight and one-tenth per cent of the patients were males and 51.9 per cent were females; 17 patients were discharged during the month and 30 died; 9 patients were reported as transferred to institutions not included in the table.

The time to be about the days of months

Patients on books 1st day of month:		
In institution:	12,	398
On temporary leave	, ,	615
Total		
Admitted during month:		
First admissions		97
Readmissions		6
Total received during month		103
Total in institution during month		116
Discharged or placed on indefinite parole during month  Transferred to other institutions  Died during month		17 9 30
Total discharged, transferred, and died		56
Patients on books last day of month:		,
In institutions	12,	410
On temporary leave		650
Total	13,	060
Males	6.	283
Females.	,	777

### DEATHS DURING WEEK ENDED JUNE 12, 1926

Summary of information received by telegraph from industrial insurance companies for week ended June 12, 1926, and corresponding week of 1925. (From the Weckly Health Index, June 17, 1926, issued by the Bureau of the Census, Department of Commerce)

• • • • • • • • • • • • • • • • • • • •	Week ended June 12, 1926	Correspond- ing week 1925
Policies in force	59, 810, 573	60, 189, 649
Number of death claims	12, 130	12, 660
Death claims per 1,000 policies in force, annual rate.	10. 6	11. 0

Deaths from all causes in certain large cities of the United States during the week ended June 12, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, June 17, 1926, issued by the Bureau of the Census, Department of Commerce)

		ded June 1926	Annual death		under 1 ear	Infant mortality
City	Total deaths	Death rate ¹	rate per 1,000 cor- respond- ing week 1925	Week ended June 12, 1926	Corre- sponding week, 1925	rate, weck ended June 12, 1926 ²
Total (66 cities)	6, 906	12. 4	15. 3	785	924	₹ 62
Albany 4	43	18.8	19.9	2	7	42
Atlania	75			2 10	14	
White	36			5		
Colored	39	(8)		5		
Baltimore 4	195	12.6	22.1	11	26	32
White	156			7		25
Colored	39	(8)		4		65
Birmingham	65	16.1	23.6	9	13	
White	34			6		
Colored	31	(5) 13. 1		3		
Boston	198	13.1	16.2	28 0	22	79 0
Bridgeport	25 159	15. 2	16.5		2 20	92
Buffalo		12.0	18.3	22 3	20	50
CambridgeCamden	28 24	9.6	18.2	3	6 7	- 51
Canton	26	12.3	11.3	2	6	27
Chicago 4	615	10.5	11.7	65	59 59	44 58
Cincinnati	120	15.2	16.2	65 8	2	50
Cleveland	188	10.2	9.2	30	20	50 78
Columbus	71	13.0	13. 4	8	1 9	73
Dallas	69	18.0	14.6	12	13	
White	49			10		
Colored	20	( ⁵ ) 13. 3		2		
Dayton	45	13.3	11.2	4	2 3	63
Denver	68	12.4	13.7	7	3	
Dcs Moines	42	15.0	7.4	5	3	83
Detroit	329	13.3	10.3	50	46	80
Duluth	23	10.6	10.4	3	5	70
El Paso	35	16.7	27.3	13	16	
Erie	31			4	47	76 87
Fall River 4	37	14.7	19.0	6 2 3 3		33
First Worth	28 25 20	10.7 8.2	6.4 9.6	2	3 4	33
White	20	0,2	9.0	9	*	
Colored	5	(ð)		Ň		
Grand Rapids	18	6.0	12.6	ň	2	ō
Houston	51	0.0	1,2.0	7	ี้ 8	J
White	38			0 7 5 2		
Colored	13	(4)		2		
Indianapolis	104	( ⁵ ) 14.8	10.0	13	3	95
White	83			6		51,
Colored	21			7 9	15	385
jersey City	70	11.5	17.0			64

Annual rate per 1,000 population.
 Desths under 1 year per 1,000 births.
 Cities left blank are not in the registration area for births.
 Data for 63 cities.

Data for 63 cities.
 Deaths for week ended Friday June 11, 1926.
 Deaths for week ended Friday June 11, 1926.
 In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans, 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 20, Norfolk 38, Richmond 32, and Washington, D. C., 25.

1305 June 25, 1926

Deaths from all causes in certain large cities of the United States during the week ended June 12, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, June 17, 1926, issued by the Bureau of the Census, Department of Commerce)—Continued

	Week en	ded June 1926	Appual death rate per	Deaths	Infant mortality	
City	Total deaths	Death rate	1,000 cor- respond- ing week 1925	Week ended June 12, 1926	Corre- sponding week, 1925	rate, week ended June 12, 1926
Kensas City, Kans	30	13. 4	13. 0	5 4	5	87
Colored	23 7	(5)		i		84 131
Kansas City, Mo.	91	( ⁵ ) 12. 7	9. 5	9	16	
White. Colored Kansas City, Mo Los Angeles Lousville White. Colored	214 73	12. 2	12 1	21	31 11	58 69
White	55		1.2. 1	8 6 2 2 2 9 5		1 60
Colored	18	(5)		2	[	125
	29 23	11 5	10. 6	2 2	3 1	125 37 50
Lynn Memphis White	23 99	29. 2	19. 7	9	10	
WhiteColored	54 45			5 4		
Milwaukee	197	( ⁶ ) 12. 8	10. 8	17	11	79
Milwaukee Minneapolis Nashville 4 White Colored	111 54 27 27	13. 3	10.3	12	12	67
Nashville 4	54	20. 6	16. 1	6	7	
Colored	27	(5)		4 2		
new beging a constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the c	4() (			1.0	4	174
New HavenNew Orkans	38 120	10. 9 16. 2	12. 5 17. 2	4 15	22	55
White	73		11.2	10		
Colored	73 57	( ⁵ ) 11. 7		5		
New York	1, 330 169	11.7 9.8	18, 2 16, 0	158 15	208 18	64
Bronx Borough Brooklyn Borough	445	10.4	16.1	66	* 83	67
Manhattan Borough Queens Borough	576	16. 0 7. 3	23.1	67	1 20	74
Richmond Borough	33	7. 3 12. 0	13. 7 20. 7	3	15	32 59
Newark, N. J.	88	10.0	16.7	7	15 3 18	33
Richmond Borough Newark, N. J Norfolk White Colored	107 33 88 32 15	9. 6	9.9	67 7 3 7 1	6	64 50 67 74 32 53 33 19 0 56
Calored	15	(5)		1		5/
Oakland Oklahoma City Omaha	46	9.2	10.5	1 6 3	7	69
Oklahoma City	46 25 53 30			3	7 3 3 6	
Paterson	30	12.8 10.9	14. 0 18. 0	5 6	8	104
Paterson Philadelphia	436	11.3	23.9	49	88 26 7	52 104 64 80 20 78 38 38 32
Pittsburgh Portland Oreg	172 57	14.1	. 14.9	24 2 9 3 2	26	80
Providence. Richmond. White.	54	10.2	16. 5	9	11	7
Richmond	49	13.5	11. 2	3	5	38
Colored	29	(6)		1		31
Prohestor	49 29 20 101	( ⁵ ) 16. 4	14.3	10	11	80
St. Louis	193	12.1 12.6	12.2 15.3	12	19	1 '
St. Louis. St. Paul Salt Laire City 4	60 32	12.5	1 13.1	5 5	6 7	44 89
San Antonio	79	12.5 20.1	16.8 15.7	25	16	
San Diego San Francisco San Francisco Schenectady Seattle Somerville	40	· 19.0	15.7 13.4	25 2 7 2 3 0 0 3 7	3	45
Schenectady	142 23 67	12.9	15.7	2	5 5 6	58
Seattle	67			3	. 6	25
Somerville	10	5. 2 16. 3	17.9 16.8	0	8	9
Spokane Springfield, Mass Syracuse Tacoma	10 34 33 52 25	11.9	18.4 10.0	3	8 2 10 2 2 2 7 6	48
Syracuse.	52	14.7	10.0	. 7	2	88
Tacoma. Toledo	25 65	123	12.0	8	2 7	1 45
Trenton	65 24 32	11.5 9.3	12. 2 27. 3 11. 8	ŏ	6	7
Utica. Washington, D. C. White	32	16.2 14.6	11.8 14.8	5 0 2 12	3	44
White	148 88	14.6	14.8	12	10	50
Colored	88 60	(4)		6		109
Waterbury	1 37	f .	16.7	2	4 2	43
Waterbury Wilmington, Del Worcester Yonkers	29 45 22	12 2 12 2 9.9	11.5	6 6 2 3 4 2	3 5 2 3	42 42 58 58 28 0 0 43 88 88 70 44 68 50 106 44 44 44 44 44 44 44 44 44 44 44 44 44
Yonkers	22	9.9	11.5 10.1 7.2	2	2	4.7
Youngstown	26	8.2	1 79	1 3	: 3	38

For footnotes 4 and 5, see p. 1804

## PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

## UNITED STATES

### CURRENT WEEKLY STATE REPORTS

These reports are preliminary and the figures are subject to change when later returns are received by the State health officers

### Reports for Week Ended June 19, 1926

ALABAMA	_	CALIFORNIA	_
	Cases	Cerebrospinal meningitis:	Cases
Chicken pox		Pacific Grove	1
Diphtheria		Stockton	3
Influenza		Chicken pox	169
Lethargic encephalitis			76
Malaria		Diphtheria	70
Mcasles.	265	Influenza	
Mumps		Leprosy	1
Pellagra		Measles	425
Pneumonia		Mumps	135
Poliomyciitis		Scarlet fever	126
Scarlet fovor		Smallpot	11
Smallpox		Typhoid fever	11
Tuberculosis	. 35	Whooping cough	76
Typhoid fever	. 38	50105 (50	
Whooping cough	. 37	COLORADO	
ARIZONA		Cerebrospinal meningitis	1
		Chicken por	63
Chicken pox		Diphtheria	25
Diphtheria		German meusles	7
Influenza		Impetigo contagiosa	1
Measles.		Influenza	
Pneumonia		Measles.	37
Scarlet fever		Mumps	1
Tuberculosis		Rocky Mountain spotted fever	
Typhoid fever	. 11	Scarlet fever	20
Arka nsas		Smallpox	3
Chicken por	. 17 .	Tuberculosis	26
		Vincent's angina	1
Diplitheria  Hookworm discase		Whooping cough	39
Influenza		CONNECTICUT	
Molaria		Cerebrospinal meningitis	2
Measles			92
Mumps		Chicken pox	
Ophthalmia neonatorum		Diphtheria	15
Pellagra		Favus	1
Scarlet fever		German measles	19
Smallpox Trachoma	. 2	Influenza	2
		Measles	349
Tuberculosis		Mumps	8
Typhoid fever	4	Pneumonia (broncho)	24
Whooping cough	50	Pneumonia (lobar)	38
	(13	06)	

CONNECTICUT—continued	~	IDAHO—continued	0
	Cases		Cases
Scarlet fever		Mumps	3
Septic sore throat	. 1	Scarlet fever	1
Tuberculosis (all forms)	. 44	Smallpox:	
Typhoid fever		Emmett	18
Whooping cough.		Scattering	2
mooping oversitions.		Tuberculosis	2
DELAWARE			1
Chicken pox	. 1	Typhoid fever.	
Diphtheria		Whooping cough	4
Measles		ILLINOIS	
Scarlet fever		TELET NOTES	
		Cerebiospinal meningitis:	
Tuberculosis		Cook County	1
Whooping cough	. 3	Knox County.	1
DISTRICT OF COLUMBIA		St. Clair County	ī
Chicken pox.	. 16	Chicken pox.	279
Diphtheria		Diphtheria	71
Measles		Influenza	La
Pellagra		Letharrie encephalitis-Macon County	1
Pneumonia		Measics	1, 155
Scarlet fever	. 16	Mumps	42
Smallpox		Pneumonia	225
Tuberculosis		Poliomyelitis:	
Whooping cough		Champaign County.	1
THOOPING COURMETERS.	. 00	Cook County	ĩ
PLOLIDA		Franklin County	ī
<b>a</b>			
Cerebrospinal meningitis		McDonough County	1
Chicken po		Scarlet fever	257
Diphtheria	. 6	Smallpox	38
German measles	. 1	Tuberculosis	51 <b>4</b>
Influenza	. 98	Typhoid fever	12
Malaria		Whooping cough	175
Measles.			
		INDIANA	
Mumps			
Pneumonia.		Cerebrospinal meningitis	1
Polional clitis		Chicken pox	45
Scarlet fever		Laphtherm	8
Smallpox	- 42	Іпвиська	10
Tetanus	A	l	
	. 6	Meusles	296
Tuberculosis		Mensles Pueumonia	296 4
	. 110	Pneumonia	4
Typhoid fever	. 110 . 16	PneumoniaScarlot fever	4 65
	. 110 . 16	Fneumonia Scarlot fever Smallpox	4 65 59
Typhoid fever	. 110 . 16	Freumonia Scarlot fever. Smallpox. Tuberculosis	4 65 59 54
Typhoid fever	. 110 . 16 . 11	Fneumonia Scarlot fever Smallpox	4 65 59
Typhoid fever	. 110 . 16 . £1	Fneumonia	4 65 59 54
Typhoid fever	. 110 . 16 . 11	Freumonia	4 65 59 54 72
Typhoid fever Whooping cough  GFORGIA  Chicken pox Diphtheria  Dysentery.	. 110 . 16 . 21 . 13 . 4	Freumonia	4 65 59 54 72
Typhoid fever Whooping cough GFORGIA Chicken pox. Diphtheria Dysentery. Hookworm disease.	. 110 . 16 . 21 . 13 . 4 . 58	Preumonia	4 65 59 54 72
Typhoid fever Whooping cough  GFORGIA  Chicken pox Diphtheria Dysentery Hookworm disease	. 110 . 16 . 21 . 13 . 4 . 58 . 4	Freumonia	4 65 59 54 72
Typhoid fever Whooping cough  GFORGIA  Chicken pox Diphtheria Dysentery Hookworm disease Influenza Malaria	110 16 21 13 4 58 4 2	Preumonia Scarlot fever Smallpox Tuberculosis Whooping & cugh  IOWA Chicken pox Diphtheria German measles	4 65 59 54 72 14 3
Typhoid fever Whooping cough  GFORGIA  Chicken pox Diphtheria Dysentery Hookworm disease Influenza Malaria Measles	110 16 11 13 4 58 4 29	Freumonia Scarlot fever Smallpox Tuberculosis Whooping & cugh  TOWA Chicken pox Diplutheria German measles Measles	4 65 59 54 72 14 3 16 118
Typhoid fever Whooping cough  GFORGIA  Chicken pox Diphtheria Dysentery Hookworm disease Influenza Malaria	110 16 11 13 4 58 4 29	Freumonia Scarlot fever Smallpox Tuberculosis Whooping & cugh  IOWA Chicken pox Diplutheria German mensles Mensles Mumps	4 65 59 54 72 14 3 16 118 6
Typhoid fever Whooping cough  GFORGIA  Chicken pox Diphtheria Dysentery Hookworm disease Influenza Malaria Measles	. 110 . 16 . 11 . 13 . 4 . 58 . 4 . 2 . 29 . 90	Preumonia Scarlot fever Smallpox Tuberculosis Whooping caugh IOWA Chicken pox Diphtheria German measles Measles Mumps I'oliomyelitis	4 65 59 54 72 14 3 16 118 6
Typhoid fever Whooping cough  GFORGIA  Chicken pox. Diphtheria Dysentery Hookworm disease Influenza Malaria Measies Mumps. Paratyphoid fever	. 110 . 16 . 11 . 13 . 4 . 53 . 4 . 2 . 29 . 90 . 12	Preumonia Scarlot fever Smallpox Tuberculosis Whooping & cugh  IOWA Chicken pox Diplitheria German mensles Mumps T'olion yelitis Scarlot fever	4 65 59 54 72 14 3 16 118 6 2 38
Typhoid fever Whooping cough  GFORGIA  Chicken pox Diphtheria Dysentery Hookworm disease Influenza Malaria Measies Mumps Paratyphoid fever Pellagra	. 110 . 16 . 11 . 13 . 4 . 58 . 4 . 2 . 29 . 90 . 12 . 2	Preumonia Scarlot fever Smallpox Tuberculosis Whooping & cugh  IOWA Chicken pox Diphtheria German measles Measles Mumps Polionyelitis Scarlot fever Smallpox	4 65 59 54 72 14 3 16 118 6 2 38
Typhoid fever Whooping cough  GFORGIA  Chicken pox Diphtheria Dysentery Hookworm disease Influenza Malaria Measles Mumps Paratyphoid fever Pellagra Pneumonia	110 16 21 13 4 58 4 29 90 10 12 2	Freumonia Scarlot fever Smallpox Tuberculosis Whooping & cugh  IOWA Chicken pox Diphtheria German measles Mumps Folionyelitis Scarlet fever Smallpox Tuberculosis	4 65 59 54 72 14 3 16 118 6 2 38 9
Typhoid fever Whooping cough  Grozgia  Chicken pox. Diphtheria Dysentery. Hookworm disease Influenza Malaria Messles. Mumps. Paratyphoid fever Pellagra Proumonia. Poliomyelitis	110 16 21 13 4 58 4 22 90 12 2 19 20	Preumonia Scarlot fever Smallpox Tuberculosis Whooping caugh  IOWA Chicken pox Diplutheria German measles Measles Mumps Poliomyelitis Scarlot fever Smallpox Tuberculosis Typhoid fever	4 65 59 54 72 14 3 16 118 6 2 38 9 12 1
Typhoid fever Whooping cough  Grozgia  Chicken pox. Diphtheria Dysentery Hookworm disease Influenza Malaria Measles Mumps Paratyphoid fever Pellagra Pneumonia Poliomyelitis Scarlet fever	110 16 11 13 4 58 4 2 29 90 12 29 19 12 20	Preumonia Scarlot fever Smallpox Tuberculosis Whooping caugh  IOWA Chicken pox Diplutheria German measles Measles Mumps Poliomyelitis Scarlot fever Smallpox Tuberculosis Typhoid fever	4 65 59 54 72 14 3 16 118 6 2 38 9
Typhoid fever Whooping cough  GFORGIA  Chicken pov. Diphtheria Dysentery. Hookworm disease. Influenza Mularia Measles Mumps. Paratyphoid fever Pellagra Preumonia Poliomyelitis Scarlet fever Septic sore throat.	110 16 11 13 14 15 18 19 19 19 19 20 11 20 19	Freumonia Scarlot fever Smallpox Tuberculosis Whooping & cugh  IOWA  Chicken pox Diplutheria German measles Mumps Foliomyelitis Scarlot fever Smallpox Tuberculosis Typhoid fevet Whooping cough	4 65 59 54 72 14 3 16 118 6 2 38 9 12 1
Typhoid fever Whooping cough  Grozgia  Chicken pox Diphtheria Dysentery Hookworm disease Influenza Malaria Messies Mumps Paratyphoid fever Pellagra Pneumonia Poliomyelitis Scarlet fever Septic sore throat. Smallpox	110 16 11 13 4 53 4 2 29 90 12 2 19 20 1	Preumonia Scarlot fever Smallpox Tuberculosis Whooping caugh  IOWA Chicken pox Diplutheria German measles Measles Mumps Poliomyelitis Scarlot fever Smallpox Tuberculosis Typhoid fever	4 65 59 54 72 14 3 16 118 6 2 38 9 12 1
Typhoid fever Whooping cough  Grozgia  Chicken pox. Diphtheria Dysentery. Hookworm disease Influenza Malaria Measles. Mumps. Paratyphoid fever Pellagra Pneumonia Poliomyelitis Scarlet fever Septic sore throat. Smallpox Tuberculosis	110 16 111 13 4 53 4 29 90 12 29 12 20 11 20 11 20 11 20 11 20 21 21 21 21 21 21 21 21 21 21 21 21 21	Freumonia Scarlot fever Smallpox Tuberculosis Whooping & cugh  IOWA Chicken pox Diplitheria German measles Mumps Foliomyelitis Scarlot fever Smallpox Tuberculosis Typhoid fever Whooping cough	4 65 59 54 72 14 3 16 118 6 2 38 9 12 1
Typhoid fever Whooping cough  Grozgia  Chicken pox. Diphtheria Dysentery Hookworm disease Influenza Malaria Measles Mumps Paratyphoid fever Pellagra Pneumonia Poliomyelitis Scarlet fever Septic sore throat Smallpox Tuberculosis Typhoid fever	110 16 111 13 4 53 4 20 90 12 20 12 20 11 20 15	Freumonia Scarlot fever Smallpox Tuberculosis Whooping cough  IOWA Chicken pox Diplutheria German mensles Measles Mumps I'olionyelitis Scarlot fever Smallpox Tubecculosis Typhoid fever Whooping cough  KANSAS Cerebrospinal meningitis	4 65 59 54 72 14 3 16 118 6 2 38 9 12 1
Typhoid fever Whooping cough  Grozgia  Chicken pox. Diphtheria Dysentery. Hookworm disease Influenza Malaria Measles. Mumps. Paratyphoid fever Pellagra Pneumonia Poliomyelitis Scarlet fever Septic sore throat. Smallpox Tuberculosis	110 16 111 13 4 53 4 20 90 12 20 12 20 11 20 15	Preumonia Scarlot fever Smallpox Tuberculosis Whooping cough  IOWA  Chicken pox Diphtheria German measles Measles Mumps Polionyelitis Scarlot fever Smallpox Tuberculosis Typhoid fevet Whooping cough  KANSAS  Cerebrospinal meningitis Chicken pox	4 65 59 54 72 14 3 16 6 2 2 38 9 12 2 1 20 2 34
Typhoid fever Whooping cough  Grozgia  Chicken pox. Diphtheria Dysentery Hookworm disease Influenza Malaria Measles Mumps Paratyphoid fever Pellagra Pneumonia Poliomyelitis Scarlet fever Septic sore throat Smallpox Tuberculosis Typhoid fever	110 16 11 13 4 58 4 2 29 90 12 20 19 20 11 20 15 20 21 20 21 25 25 26 27 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	Preumonia Scarlot fever Smallpox Tuberculosis Whooping & cugh  IOWA Chicken pox Diplitheria German measles Measles Mumps Polionyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS Cerebrospinal meningitis Chicken pox Diphtheria	4 65 59 54 72 14 18 6 2 2 38 9 12 1 20 2 2 34 7
Typhoid fever Whooping cough  Grozgia  Chicken pox. Diphtheria Dysentery Hookworm disease Influenza Malaria Measles Mumps. Paratyphoid fever Pellagra Pneumonia Poliomyelitis Scarlet fever Septic sore throat Smallpox Tuberculosis Typhoid fever Typhus fever Whooping cough	110 16 11 13 4 58 4 2 29 90 12 20 19 20 11 20 15 20 21 20 21 25 25 26 27 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	Freumonia Scarlot fever Smallpox Tuberculosis Whooping & cugh  IOWA  Chicken pox Diphtheria German measles Mumps Folionyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS  Cerebrospinal meningitis Chicken pox Diysentery (amebie)	4 65 59 54 72 14 3 16 118 6 2 2 38 9 9 12 2 1 20
Typhoid fever Whooping cough  GFORGIA  Chicken pox. Diphtheria Dysentery Hookworm disease Influenza Malaria Measies Mumps Paratyphoid fever Pellagra Pneumonia Poliomyelitis Scarlet fever Septie sore throat. Smallpox Tuberculosis Typhoid fever Typhus fever Whooping cough	110 16 11 13 4 58 4 2 29 90 12 20 11 19 20 11 20 15 22 24 25 20 20 20 20 20 20 20 20 20 20 20 20 20	Freumonia Scarlot fever Smallpox Tuberculosis Whooping cough  IOWA  Chicken pox Diphtheria German mensles Mensles Mumps Poliomyelitis Scarlot fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS  Cerebrospinal meningitis Chicken pox Diphtheria Dyseatery (amebic) German mensles	4 65 59 54 72 14 3 38 6 6 2 2 1 2 2 34 7 1 6 6
Typhoid fever Whooping cough  Grozgia  Chicken pox Diphtheria Dysentery Hookworm disease Influenza Malarin Messies Mumps Paratyphoid fever Pellagra Preumonia Poliomyelitis Scarlet fever Septic sore throat. Smallpox Tuberculosis Typhoid fever Typhus fever Whooping cough  IDAHO Chicken pox.	110 16 111 13 4 58 4 29 90 12 20 11 20 11 22 45 22 45 22 45 22 45 22 45 22 45 22 45 24 46 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	Freumonia Scarlot fever Smallpox Tuberculosis Whooping cough  IOWA Chicken pox Diphtheria German measles Measles Mumps Foliomyelitis Scarlot fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS Cere brospinal meningitis Chicken pox Diphtheria Dyseatery (amebie) German measles Influenza	4 65 50 50 54 72 14 3 16 6 2 2 38 9 12 20 2 2 34 7 7 1 6 30 30
Typhoid fever Whooping cough  GFORGIA  Chicken pox. Diphtheria Dysentery Hookworm disease Influenza Malaria Measies Mumps Paratyphoid fever Pellagra Pneumonia Poliomyelitis Scarlet fever Septie sore throat. Smallpox Tuberculosis Typhoid fever Typhus fever Whooping cough	110 16 111 13 4 53 4 29 90 12 20 12 20 11 20 15 22 45 22 45 22	Freumonia Scarlot fever Smallpox Tuberculosis Whooping cough  IOWA  Chicken pox Diphtheria German mensles Mensles Mumps Poliomyelitis Scarlot fever Smallpox Tuberculosis Typhoid fever Whooping cough  KANSAS  Cerebrospinal meningitis Chicken pox Diphtheria Dyseatery (amebic) German mensles	4 65 59 54 72 14 3 38 6 6 2 2 1 2 2 34 7 1 6 6

KANSAS—continued	_ 1	massachusetts-continued	C 10
	Cases		Ca.3e: 53'
Pellagra		Moasles	15
Pneumonia		MumpsOphthalmia neonatorum	
Poliomyelitis—Topeka (rural)	1	Pneumonia (lobar)	
Scarlet feverSmallpox		Polioniyelitis	-
Tetanus.		Scarlet fever	21
Tuberculosis		Trachoma	
Typhoid fever	-	Tuberculosis (pulmonary)	
Whooping cough		Tuberculesis (other forms)	
		Typhoid fever	
LOUISIANA		Whooping cough	
Diphtheria		MICHIGAN	
Induceza		1	. 9
Lepresy		Diphtheria	
Malaria		Meusles Pneumonia	
Paratyphoid fever		Scarlet fever	
Pneumonia		Smallpor	
Scarlet fever		Tuberculosis	٠.
Smallpox		Typhoid fever	
Tuberculosis		Whooping cough	
Typhoid fever		-	
Whooping cough	_ 17	MINNESOTA .	
MAINE		Cerebrospinal meningitis	
Cerebrospinal meningitis	. 1	Chicken pox	
Chicken pox		Diphtheria	. 4
German measles		Influenza	
Lethargic encephalitis		Lethargic encephalitis	
Measles		Measles	. 58
Mumps		Pneumonia	
Paratyphoid fever		Scarlet fever	. 27
Pell'igra		Smallpox	
Pneumonia	_	Tuberculosis	
Scarlet fever		Whooping cough	. 4
Tuberculesis		Missispipi	
Typhoid fever		Diphtheria	
Whooping cough		Scarlet fever	-
		Smallpox	
MARYLAND 1		Typhoid fever	
Chicken pox			
Diphtheria		MISSOUBI	
Dysentery		(Exclusive of Kansas City)	
German measles		Chielen nev	. 20
Influenza		Chicken pox	
Lethargic encephalitis		Mensles	. 20
Measles		Numps	
Mumps  Pornt polade force		Scarlet fever	
Paratyphoid fever		Smallpox	
Pneumonia (broncho)		Trachoun	
Pneumonia (lober)		Tub-realosis	
Poliomyelitis		Typhoid fever	
Scarlet fever		Whooping cough	
Septic sore throat			•
Tuberculasis.		MONTANA	
Typhoid fever	. 3	Cerebrospiual meningitis	
Whooping cough		Chicken pox	
	- "	Diphtheria	. 1
M ASSACHUSETTS		Measles	. 4
Chicken pox		Mumps	
Conjunctivitis (suppurative)		Rocky Mountain spotted fever	
Diphtheria	60	Scarlet fever	. 1
German messies	256	Smallpox	
Influenza		Tuberculosis	
Lethargic encephalitis	1	Typhoid fevor	
1 Week ended Friday.			

NEBRASKA	~	OKLAHOMA	C
Chicken nov	Cases 20	(Exclusive of Oklahoma City and Tulsa	Cases
Chicken pox		,	,
Measles		Cerebrospinal meningitis—Pittsburg	,
Mumps		Chuken por	1 6
Pneumonia		Chicken pox	1
Scarlet fever		Influenza	21
Smallpox		Malaria	28
Tuberculosis		Measles	47
Typhoid fever		Pellagra	20
Whooping cough	. 29	Pneumonia	12
NEW JERSEY		Poliomyelitis—Osage County	1
Combination I manufacture	•	Smallpox	7
Cerebrospinal meningitisChicken pox		Typhoid fever	12
Diphtheria.		Whooping cough	65
Measles		. OREGON	
Pneumonia		Cerebrospinal meningitis	2
Poliomyelitis		Chicken pox	14
Rabies		Diphtheria	13
Scarlet fever	. 178	Influenza	8
Typhoid fever	. 6	Malaria	1
Whooping cough	. 77	Measles	54
NEW MEXICO		Mumps	12
	. 5	Pneumonia	27
Chicken pox		Rocky Mountain spotted fever	2
Measles		Scarlet fever	34
Mumps		Smallpox:	9
Pneumonia		Portland	15
Rables (in animals)		Scattering Tuberculosis	13
Scarlet fever		Typhoid fever	5
Smallpox	. 1	Whooping cough	22
Tuberculosis	. 59	1	
Typhoid fever		Chicken por	275
Whooping cough	_ 21	Diphtheria	155
NEW YORK		German measles	
(Exclusive of New York City)		Impetigo contagiosa	
Anthrax	. 1	Measles	
Cerebrospinal meningitis		Mumps	
Chicken pox	. 238	Opht halmia neonatorum—Philadelphia	
Diphtheria	. 55	Pneumonia	
Dysentery		Poliomyelitis—York	1
German measles		Scarlet fever	452
Influenza.		Smallpox Tctanus—Philadelphia	
Lethergic encephalitis		Tuberculosis	
Malaria		Typhoid fever	
Measles		Whooping cough	341
MumpsPneumonia			
Scarlet fever		South Dakota Chieken pox	1
Septic sore throat		Diphtheria	
Smallpox		Influenza.	
Trachoma		Measles	7
Typhoid fever		Poliomyelitis	1
Vincent's angina	. 6	Scarlet fever	37
Whooping cough	265	Smallpox	1
NORTH CAROLINA		Tuberculesis.	
Diphtheria		Typhoid fever	2
German measles		TENNESSEE	
Measles.			
Poliomyelitis		Cerebrospinal meningitis—Knox County	
Scarlet fever		Chicken pox.	.6
Smallpox		Diphtheria	
Typhoid fever		Dysentery Influenza	
Whooping cough	. 412	1 - 4444.64 CARGER	. ; 9
2 Deaths.		, , , , , ,	. "

TENNESSEE—continued	~	WASHINGTON-COMMINUE	Cases
	Cases		15
Lethargic encephalitis-Hamblen County	1	Smallpox	25
Malaria	17	Tuberculosis.	4
Measles	I	Typhoid fever	-
Mumps		Whooping cough	38
Ophthalmia neonatorum		WHAT VIRGINIA	
Pellagra		Chicken por	17
Pneumonia	3	Diphtheria	Ð
Poliomyelitis:	1	Influenza	2
Dyer County		Measles	578
Henderson County		Scarlet fever	18
Rabies			7
Scarlet fever	8	Smallpox	1
Smallpox	10	Trachoma	15
Tetanus.	1	Tuberculosis	9
Trachoma	1	Typhoid fever	35
Tuberculosis	93	Whooping cough	30
Typhoid fever.	16	WISCONFIN	
Whooping cough	26	Milwaukee:	
		Cerobrospinal meningitis.	1
TEXAS	1	Cheken pox	107
Chicken pov		Diphtheria	6
Dengue	1	German measles	2
Diphtheria	13	Measles	303
Dysentery	5	Mumps	25
Influenza	9	Pneumonia	7
Measles	8	Scarlet fever	18
Mumps	17	Tuberculosis.	23
Pollugra	. 5	Whoomng cough	44
Pneumonia	6	Scattering:	
Scarlet fever	. 9	Cerchrospinal meningitis	1
Smallpox	. 8	Chleken por	
Tuberculosis		Diphtheria	
Typhoid fever		German measies	
Whooping cough		Influenza	
		Measles	
HATU		Mumps	
Chicken pox	_ 25	Pneumonia	
Diphtheria		Poliomyelitis	
Measles	. 53	Scarlet fever	
Mumps	. 8	Smallpoy	
Pneumonia	. 3	Tuberculosis	2
Scarlet fever	. 3	Typhoid fever	
Smallpox	_ 1	Whooping cough	
Tuberculosis	. 1	Transpirity Congression	00
Whooping cough		WYOMING	
		Chicken pox	13
Washington		German measles	;
Cerebrospinal meningitis:		Influenza	1
Asotia County		Measles	5
Spokane	. 2	Rocky Mountain spotted lever:	
Chicken pox	_ 55	Fremont County	2
Diphtheria	_ 10	Natrona County	1
German measles	_ 31	Scarlet fever	14
Mosslos		Smallpox	
Mumps		Typhoid fever	
Scarlet fever		Whooping cough	
		nded June 12, 1926	
NORTH DAKOTA		NORTH DAKOTA—continued	
MORTH DAKUTA	Cases	DOUBLINGS—ATOMAC MINON	Cases
Chicken pox		Scarlet fever	54
Diphtheria		Smallpox	
German moasles	_ 19	Tuberculosis.	
Measles	_ 60	Mpoobing congli	20
Freumonia	_ 6	11 -CONTACT CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR	250
	- 4		

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### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Cere- bro- spinal menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pella- gra	Polio- mye- lıtis	Scarlet fever	Small- pox	Ty- phoid fever
May, 1926 Arkansas. District of Columbia Louislana New Jersey North Dakota Tennessee. Wisconsin	0 2 0 10 0 10 3	7 71 37 328 28 60 126	153 3 86 34 516 424	123 55 44 0	268 1, 604 17 6, 991 126 3, 154 5, 021	85 0 51 	0 0 0 4 1 0	92 132 81 828 256 170 459	35 3 78 0 31 147 15	19 5 54 21 2 51 14

### RODENT PLAGUE IN SAN BENITO COUNTY, CALIF.

A report dated June 5, 1926, states that 5 squirrels out of a total of 27 shipped from San Benito County, Calif., to the Public Health Service laboratory at San Francisco, have proved positive for bubonic plague.

### SMALLPOX IN CALIFORNIA, JANUARY TO APRIL, 1926

The Weekly Bulletin of the California State Board of Health dated May 15, 1926, gives the following summary of cases of smallpox and deaths from this disease during the four months ended April 30, 1926. The total number of cases of smallpox was 2,182; deaths, 208. Of these, 1,249 cases and 186 deaths occurred in Los Angeles County. Only 10 counties reported deaths from smallpox during the four months, and 5 of these had only one death each.

	January		January February		March		April	
County	Cascs	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
Alameda	70		77	1	106	1	65 4	
Colusa Contra Costa El Dorado			5 6		6 11			
Glenn Humboldt Imperial			4		40		1 3	
Kern Los Angeles Madera		28	6 445 3	70	12 400	2 46 	129	42
Marin Mendocino Merced	1 2				6		25 2	
Modoe	12		4 4 2		5 6 2		12 10	
Riverside Sacramento San Bernardino	l		34 15	1	19 7 14	1	11	
San Diego	1	i	24	5	25 4	i	24 15	1 2
San Luis Obispo Ban Mateo Santa Barbara		i	3		1 2		1	

	January		February		March		April	
County	Cases	Deaths	Cases	Doaths	Cases	Deaths	Cases	Deaths
Santa ClaraSanta Cruz	3		G		5 1		10	
Siskiyou Solano Sonoma Stanislaus	5 1		1 3		51 51		7.	
Stanislaus Sutter Tulare Ventura	1 2		2		2 1	1	1 2	
Yolo Yuba California	1 2		6		6		*******	
Total	449	31	657	78	746	54	337	45

## SMALLPOX IN FLORIDA, DECEMBER, 1925, TO MAY, 1926

The bureau of vital statistics of the State Board of Health of Florida has supplied the following data relative to cases of smallpox reported in the State of Florida during the six months ended May 31, 1926:

Location	Dec.	Jan.	Feb.	Mar.	Apr.	May	Total
State	65	322	558	782	407	269	2, 403
Alachua County Brayard County Citrus County		10	4 1 1	6 4	2	25 1 1	39 16 2
Clay County Dade County, exclusive of Miami Miami Duval County, exclusive of Jacksonville.	25	2 82	10 6 130	2 7 185.		<u>6</u>	17 24 459
Jacksonville  Escambia County  Franklin County	13	35 4	104 2	14 132	106 1	104 3	28 494 11
Glades County  Highlands County  Hillsboro County, exclusive of Tampa	3	10	3	2 12	27	2 5 2	11 51
Tampa Lake County Lee County			120	112	68 1	31 1 2	466 2 4
Madison County Marion County Orlando Paim Beach County, exclusive of West Pulm Beach		5	36	6	1 1 2	2 1	14 38 13
West Palm Beach Pasco County St. Petarsburg		5	60 1	113 15 35	37 3 28	12 2 22	222 26 91
Polk County, exclusive of Lakeland Lakeland St. Johns County			1 3	29 11 23	6 2	4 4 7	41 18 34
St. Lucie County		3	4 1	22	6	12 4 8	41 6 24
Volusia County Washington County		1		1	15 1	3	18

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## PLAGUE ERADICATIVE MEASURES IN LOS ANGELES, CALIF.

The following items were taken from the report of plague eradicative measures from Los Angeles, Calif.:

### Week ended June 12, 1926:

Number of rats trapped	389
Number of rats found to be plague infected	0
Number of squirrels examined	747
Number of squirrels found to be plague infected	
Number of mice trapped	262
Number of mice found to be plague infected	0
Date of discovery of last plague-infected rodent, Nov. 6, 1925.	
Date of last human case, Jan. 15, 1925.	

## GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended June 5, 1926, 35 States reported 932 cases of diphtheria. For the week ended June 6, 1925, the same States reported 1,345 cases of this disease. Ninety-seven cities, situated in all parts of the country and having an aggregate population of more than 30,120,000, reported 684 cases of diphtheria for the week ended June 5, 1926. Last year for the corresponding week they reported 870 cases. The estimated expectancy for these cities was 833 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-three States reported 13,263 cases of measles for the week ended June 5, 1926, and 6,165 cases of this disease for the week ended June 6, 1925. Ninety-seven cities reported 5,783 cases of measles for the week this year and 3,398 cases last year.

Poliomyelilis.—The health officers of 36 States reported 14 cases of poliomyelitis for the week ended June 5, 1926. The same States reported 38 cases for the week ended June 6, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-five States—this year, 2,589 cases; last year, 2,845 cases; 97 cities—this year, 1,321 cases; last year, 1,462 cases; estimated expectancy, 885 cases.

Smallpox.—For the week ended June 5, 1926, 36 States reported 547 cases of smallpox. Last year for the corresponding week they reported 821 cases. Ninety-seven cities reported smallpox for the week as follows: 1926, 88 cases; 1925, 256 cases; estimated expectancy, 125 cases.

Typhoid fever.—Two hundred and forty-two cases of typhoid fever were reported for the week ended June 5, 1926, by 35 States. For the corresponding week of 1925, the same States reported 566 cases of this disease. Ninety-seven cities reported 54 cases of typhoid fever for the week this year and 137 cases for the corresponding week last year. The estimated expectancy for these cities was 71 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 91 cities, with a population of more than 29,400,000, as follows: 1926, 646 deaths; 1925, 744.

### City reports for week ended June 5, 1926

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

			Diph	theria	Influ	ienza			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pueu- monia, deaths re- ported
NEW ENGLAND									
Maine: Portland	75, 333	1	1	0	0	0	95	1.	5
New Hampshire: Concord	22,546	0	0	0	0	e	0	0	0
Manchester Vermont: Barre	83, 097 10, 008	0	0	0	0	. 0	18	0	0
Massachusetts: Boston	779, 620	25	50	13	3	1	96	41	15
Fall River Springfield Worcester	128, 993 142, 065 190, 757	0 0 2	3 2 4	1 2 8	0	0	6 4	1 0	2 1 5
Rhode Island: Pawtucket Providence Connecticut:	69, 760 267, 918	1 0	1 7	0 7	0	0	10 46	1 0	. 1
Bridgeport Hartford New Haven	(1) 160, 197 178, 927	7 4 8	5 5 3	2 0 0	0 1 1	0 0	3 7 39	0 0 1	2 6 3
MIDDLE ATLANTIC			_					-	
New York:  Buffalo  New York  Rochester  Syracuse  New Jorsey:	538, 016 5, 873, 356 316, 786 182, 003	8 168 10 12	10 256 6 6	0 176 6 2	0 34 0 0	0 6 0	23 484 48 306	1 74 1 0	17 155 5 4
Canden Newark Trenton Pannsylvania:	128, 642 452, 513 132, 020	3 51 1	13 3	7 5 1	0 2 0	0 0 0	19 89 43	0 8 0	6 7 4
Philadelphia Pittsburgh Reading	1, 979, 364 631, 563 112, 707	66 25 2	62 18 3	61 11 1		6 1 0	216 185 35	9 3 0	41 21 2
EAST NORTH CENTRAL									
Ohio: Cincinnati Cleveland Columbus Toledo Indiana;	409, 333 936, 485 279, 836 287, 380	11 47 13 27	7 18 2 5	8 30 5 3	0 0 0	0 0 1 0	179 37 65 299	9 6 8	12 11 7 6
Fort Wayne Indianapolis South Bend Terre Haute	97, 846 358, 819 80, 091 71, 071	3 4 1 0	2 4 1 1	2 1 0 0	0	0 0 0	74 27 52 10	0 1 0 0	13 5
1 No estimate made.					·				ŧ

## City reports for week ended June 5, 1926—Continued

			Dipht	heria	Influe	enza			
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
East north central— continued									
Illinois: Chicago Peoria Springfield	2, 995, 239 81, 564 63, 923	137 2 3	87 1 0	60 0 0	3 0 0	1 0 0	229 0 12	18 2 4	36 1 1
Michigan: Detroit Flint Grand Rapids Wisconsin	1, 245, 824 130, 316 153, 698	56 16 5	37 3 2	49 2 2	0 0	7 0 0	53 131 63	7 1 0	31 5 2
Kenosha Madison Milwaukee Racine	50, 891 46, 385 509, 192 67, 707 39, 671	90 3 0	0 12 0 0	0 13 2 1	0 2 0 0	0 3 0 0	293 279 16	50 4 0	0 11 6 2
Superior West north central	35, 671					"	10		_
Minnesota: Duluth Minnespolis St. Paul	110, 502 425, 435 246, 001	7 35 24	1 14 15	0 25 4	0 0	0 0 1	13 72 364	0 1 0	2 8 1
Iowa: Davenport Des Moines Sioux City Waterloo	52, 469 141, 441 76, 411 36, 771	. 0 0 1 2	1 1 0 0	2 2 0 0	0 0		0 0 54	0 0 0 1	
Missouri:  Kansas City St. Joseph St. Louis North Dakota:	367, 481 78, 342 821, 543	12 3 12	5 1 39	1 0 73	2 0 1	2 0 1	497	6	9
Fargo Grand Forks South Dakota:	26, 403 14, 811	2	0	0	0	0		- <del> </del>	0
Aberdeen Sioux Falls Nebraska	15, 036 30, 127	0	0	0	0		- 3	0	0
Lincoln Omalia Kansas:	60, 941 211, 768	3 7	1 2	0	1	0	56	0	0 2
TopekaWichita	55, 411 88, 367	19	1	, 0 , 1			11		1
SOUTH ATLANTIC									
Delaware: Wilmington Maryland:	122, 049	2	1	3	1	1	į.	98	1
Cumberland	796, 296 33, 741 12, 035	46 0 0	17 0 0	11		) (			1
District of Columbia: Washington Virginia:	497, 906	ł	8	1 6			i	1	}
Lynchburg Norfolk Richmond Roanoke	186, 403	19	0	1 :		0	2 0 0 10 0 2	33	
West Virginia: Charleston Wheeling	40, 019 56, 208	10			0		0 3		3
North Carolina: Raleigh Wilmington	30, 37) 37, 06:		2 9				0		0 0
Winston-Salem South Carolina: Charleston Columbia. Greenville	69, 03 73, 12 41, 22	5	2 0	,	0 1		0 6	6	0 1 0 1

¹ No estimate made.

City reports for week ended June 5, 1926-Continued

Name and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec			Diph	 theria	Influ	enza		1	
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Ceses, esti- mated expect- arey	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, eases 1e- ported	Pneu- monia, deaths re- ported
SOUTH ATLANTIC— continued									
Georgia: AtlantaBrunswick SavannahFlorida:	(1) 16, 809 93, 134	10 0 0	1 0 0	2 0 0	4 0 1	0 0 1	36 6 0	0 0 1	2 0 0
Miami St. Petersburg Tampa	69, 754 26, 847 94, 743	1 1	0 0	4 0	0 0 0	0 0 0	5 0	2 1	2 1 2
EAST SOUTH CENTRAL									
Kentucky: Covington Louisville	58, 309 305, 935	0 2	1 3	0	0	0 2	11 21	0	0 13
Tennessee: Memphis Nashville Alahama:	174, 533 136, 220	4	1 0	1 0	0	0 2	139 10	ō	2 3
Birmingham Mobile Montgomery	205, 670 65, 955 46, 481	14 1 0	0	2 0 0	0 0	3 0 0	127 1 11	6 0 2	6 0 0
WEST SOUTH CENTRAL					ļ				_
Arkansas: Fort Smith Little Rock	31, 643 74, 216	4 4	0	0	0		1 6	1 0	2
Louisiana: New Orleans Shreveport	414, 493 57, 857	4	6	6 3	3	2 0	5 0	0	8 2
Oklahoma: Oklahoma City Texas:	(1)	0	0	1	6	1	6	0	1
Dallas Galveston Houston San Antonio	194, 450 48, 375 164, 954 198, 069	37 0 0 0	2 1 2 0	1 0 2 1	0 0	0 0 1 0	, 4 0 0 4	0 0 1 0	0 1 3 5
MOUNTAIN									
Montana: Bilings Great Falls Helena. Missoula	17, 971 20, 883 12, 037 12, 668	2 1 0 2	0 0	0 0 0	0 0 0	0 1 0	7 53 0 1	0 0 0	1 0 1 0
Idahe: Boise	23, 042	0	0	0	0	0	3	0	0
Colorado: Denver Pueblo	280, 911 43, 787	32 6	10 1	5 0	ō	1 0	23 39	1 0	7
New Mexico: AlbuquerqueArizona:	21,060	G	1	4	0	υ	2	2	2
PhoenixUtah:	38, 669	0		0	0	0	0	0	0
Salt Lake City Nevada:	130, 948		3	6	0	0	11		6
Reno	12,665	0	0	Ð	0	0	0	0	0
Washington: Seattle Spokane Tacema	(¹) 108, 897 104, 455	25 13 1	4 2 1	8 1 4	0 0 0		32 18 2	33 0 1	3
Oregon: Portland	282, 383	13	0	7	3	0	49	3	6
California: Los Angeles Sacramento San Francisco	(1) 72, 260 587, 580	18 5 23	34 2 18	21 4 11	9 0 1	0 0 1	2 0 204	4 8 16	8 8 0

[·] Line estimate made.

## City reports for week ended June 5, 1926-Continued

	Scarlet	fever	1	Smallpo	x	Tuber-	Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expact- ancy	Cases 10- ported	Deaths re- ported	culo- sis, deaths re- ported	Cases, esa- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
NEW ENGLAND											
Maine: Portland	1	2	0	0	0	1	1	0	0	8	25
New Hampshire: Concord Manchester	0	0	0	0	0	0	0	0	0	0	5 14
Vermont: Barre	1	0	0	0	0	0	0	0	0	0	2
Massachusetts: Boston Fall River	42 2	59 4	0	0	0	17	2	0	0	51 2	199 35
Springfield Worcester	5 7	2 7	ŏ	0	ŏ	2	0	ŏ	, d	5 14	37 48
Rhode Island: Pawtucket Providence	1 7	0	0 0	0	0	2	0	Ö	0	3 10	14 71
Connecticut: Bridgeport	6	18	0	0	0	1	0	0	0	1	29 35
Hartford New Haven	3	3 7	0	0	0	3	0	0	0	6	46
MIDDLE ATLANTIC											
New York: Buffelo New York Rochester Syracuse	19 187 13 9	9 234 14 0	0 1 0 0	0 0 0	0 0 0	13 1 114 4 2	1 11 0 0	0 12 1 0	1 0 0 0	8	152 1,347 85 47
New Jersey: Camden Newark Trenton	3 16 2	5 19 3	0	0 0	0	0 5 6	1 0 0	0 2 0		18	80
Pennsylvania: Philadelphia Pittsburgh Reading	65 23 2	90 34 12	1 0 0	, 0	000	38 7 0	5 1 0	2 1 0	0	102	162
east north Central								Ì			
Ohio: Cincinnati Cleveland Colombus	9 18 7 10	15 60 14 11	2 2 2 2 2	1 0 0	0000	8 13 4 7	0 1 1 1 1	1 0		79	68
Toledo Indiana: Fort Wayne	2	7	3	0	0	1	0	0	1 6	) 8	13
Indianapolis South Bend Terre Haute Illinois:	3 2	8 3 5	9 1	. 0	0	1	0 0	000		3 8	17 15
Chicago Peoria Sprlugfield Michigan:	97 3 1	73 1 2	3 0 1	0 0	0	1	0	1	.   (	) (	24 1 18
Detroit Flint Grand Rapids Wisconsin:	- 61 4 5	124 19 7	3 1 1	000	0 0	1	0	0	) (	1	
Kenosha Magison	$\frac{1}{2}$	0	. 2			-	_ 0				3 13 102
Milwaukee Racine Superior	. 4	15 2 · 5	5 1 2	1 0	1	1	0	€	) (	3	
WEST NORTH CENTRAL							,				
Minnesota: Duluth Minneapolis St. Paul	27 18		2 9	0	(	) 1 (	1 1	. 1	D-1	04	0 29 4 83 2 65

⁴ Pulmonary tuberculosis only.

June 25, 1926

City reports for the week ended June 5, 1926-Continued

	Scarle	t fever	1	Smallpo	x	Tuber-	Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re-	Deaths, all causes
WEST NORTH CEN- TRAL—contd.											
Iowa:		_		,			0	0		0	
Davenport Des Moines	5	0	3	1			0	0		0	
Sioux City Waterloo	2 2	9	0	8			0	0		3 6	
Missouri:		1	i .	ļ			}	]		1	04
Kansas City St. Joseph	6	11	3 0	0	0	9	0	0	0	8	94 31
St. Joseph St. Louis	25	58	3	ĭ	ŏ	7	2	3	Ō	34	184
North Dakota: Fargo	0	2	0	1	0	1 0	0	0	0	4	6
Grand Forks South Dakota:	0		Ü				0				
Aberdeen	1	8	0	0			0	0		34	
Sioux Falls Nebraska:	1	1	1	0	0	0	0	0	0	0	5
Lincoln	1	2	0	0	0	2	0	0	0	15	10
Omaha Kansas:	4	35	5	10	0	4	0	U	1	3	48
Topeka Wichita	1 2	2 1	1 3	0	0	0	0	0	0	15 18	11 25
SOUTH ATLANTIC											
Delaware:			_	_	_		١;		0	0	32
Wilmington Maryland:	4	5	0	0	0	1	1	0		1	l .
Baltimore Cumberland	22 1	4G 0	1 0	Ŏ	0	13	3	2 0	2 0	49	215 5
Frederick	Ô	ő	ő	0	ŏ	. 0	ő	ŏ	ŭ	2	2
District of Col.: Washington	15	28	2	0	U	14	2	1	0	27	146
Virginia:						l	1		1		l
Lynchburg Norfolk	1	2 15	0	0	0	0	0	0	0	3 13	12
Richmond	2	9	0	1	Ŏ	5	1	0	0	0	57
Roanoke West Virginia:	1	0	1	5	U	3	0	0	0		14
Charleston Huntington	1	0	0	0	0		1	0	0	16	
Wheeling	2	· 1	i	ō	0	<u>3</u> -	0	·ó	Ü	0	14
North Carolina: Raleigh	0	0	0	1	0	1	0	0	0	6	10
Wilmington	0		0 2				Q.	,			
Winston-Salem South Carolina:	0	0	2	0	0	0	1	1	0	9	i
Charleston	0	0	0	1	0	1	0	1	0	4	16
Columbia Greenville	0	0 1	0	0	0	0	1	3 0	0	0	9
Georgia:	4	0	G	u	0	4	1	8	3	O	70
Brunswick	0	0	0	0	0	0	U	0	0	0	* 5
Savannah Florida:	0	0	1	0	0	2	1	0	0	0	33
Miami		0		1	0	0		4	0	18	44
St. Petersburg.	0	ō	0	9	0	2 4	0		0	<u>-</u>	18 86
EAST SOUTH CENTRAL	J	ŭ	Ů		Ĭ					Ů	00
Kentucky: Covington	1	7	0	0	o	3	0	0	0	0	10
Louisville	4	5	ĭ	ĭ	ŏ	6	ĭ	ŏ	ĭ	8	91
Tennessee: Memphis	3	8	2	3	0	2	1	0	0		47
Nashville Alabama:	2	2	1	ō	ŏ	2	î	ŏ	ŏ	5	40
Birmingham	1	2	6	8	o l	4	2	1	1	19	86
Mohile Montgomery	0	0	1 0	0	0	. 2	1 0	1 0	0	0	22 24

## City reports for week ended June 5, 1926—Continued

																-
	Scarlet	fever		Smallp	ΣC	,	Cuber-		Тур	hoid fe	ver		Who	-000		
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Dea re por	ths	culo- sis, deaths re- ported	ma	ti- ted ect-	Cases re- ported	r	aths e- rted	cou cos re por	gh,	Death: all causes	-
WEST SOUTH CENTRAL																
Arkansas: Fort Smith Little Fock	1 0	0 14	9	0		0	····· <u>2</u>		0	0		<u>ō</u>		6 4		
Louisiana: New Orleans_ Shreveport Oklahoma:	2 0	13 0	2 1	2 0		0	13 1		3	0		0		16 2		27 24
Oklahoma City Texas:	1	1	4	1	1	0	2		1	0		0		0		19 45
Dallas Galveston Houston San Antonio	0 1 1	8 0 2 1	1 1 0	5 1 0		0 0	4 0 3 9		1 1 1 1	1 0 0 1		2 0 0 1		0		17 66 51
MOUNTAIN						1			l							
Montana Billings Great Falls Helena Missoula	1 2 0 0	1 0 0 1	0 2 0 0	000		0	1 0 0 0	1	0	0 0 0		0 0 0 0		0 1 0 0		2 10 6 7
Idaho: Boise Colorado:	. 0	0	1	3	3	0	0		0	0		0		0		7
Denver Pueblo	0 1	15 2	1 0			0	12 1		0	1 0		0		22 1		79 3
New Mexico: Albuquerque. Arizona:	1	2	0			0	5		0	1	1	0	1	2		22
Phoenix Utah:	-	. 1	0	1	9	0	12			3	l	0	1.	. 0		23
Salt Lake City Nevada: Reno	- 2	0	1	į	0	0	0	1	0	0	1	0	1	0		28 3
PACIFIC																
Washington: Seattle Spokane Tacoma Oregon:	9 4 2	10 15 3	3	1 (	0 0 5	ō		 i	1 0 0	0	1	ō	-	5 7 1		 24
Portland California:	- 7	32		ì	8 🖠	0	1	1	0	Ó	1	0	1	9		59
Los Angeles Sacramento San Francisco		21 0 14	1 0	1	3 1 0	0 0 0	31	1 5	2 0 1	0 1 1	. 1	0	)	4 0 11	I	208 13 144
				rebros; gening			thargi ephalit		Po	llagra		Poli	omy tile p	elitis paral	(indu ysis)	n-
Division, S	ate, and	i citv	-	1			T	_		Π		Cas	es,			
<b>2</b> 17 12 1 3 1 3 1	,		Ca	ses De	aths	Case	s Deaf	hs	Case	Deat	hs	est mat expe	ed (	Case	Dea	ths
NEW E	NGLAND	)														.,
Massachusetts: Boston Fall River				0	0	2		1	0		0	,	0	1		10
Connecticut: Bridgeport Hartford				0	. 0	,		Ø 0	0	1	0		0	0		0

City reports for week ended June 5, 1926-Continued

	Cereb:	rospinal ingitis	Let	hargic phalitis	Pel	llagra	Polion tile	yelitis paraly	(infan- sis)
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated (apect- anc)	Casos	Deaths
MIDDLE ATLANTIC								-	
New York:							١.		
New York New Jersey:	1	0	8	4	0	0	1	1	1
Newark Pennsylvania:	2	0	0	0	0	0	1	U	0
Pittsburgh	2	1	0	0	0	0	0	0	0
EAST NORTH CENTRAL									
Ohio: Columbus	. 0	0	0	1	0	0	0	0	o
Illinois:		1	1	o	0	0	0	0	
Chicago	1	1	1	1	1	1	1	1	1
Detroit	2	0	0	0	0	0	0	0	0
WEST NORTH CENTRAL						1			1
Minnesota: Duluth	1	1	0	0	0	0	0	0	١٠
St. Paul	Ô	Õ	i	ŏ	Õ	Ŏ	Ŏ	Ü	0
Missouri: Kansas City	2	2	0	0	0	0	0	0	0
SOUTH ATLANTIC ¹			}						
District of Columbia:		1		١.					١ .
Washington North Carolina:	1	0	0	0	0	1	0	0	0
Raleigh	. 0	0	0	0	0	1	0	0	0
Charleston	. 0	0	0	0	9	1	0	0	0
Georgia: Atlanta	. 0	0	0	0	0	1	0	0	0
Florida: Miami	. 1	0	0	0	0	0		. 0	0
EAST SOUTH CENTRAL									•
Alabama:		]			1				
Birmingham	. 0	0	0	o	1	0	Į o	0	o
Mobile	0	0	0	0	1	1	U	0	Ō
WEST SOUTH CENTRAL									
Louisiana: Shreveport	. 0	0	0	0	0	1	o	0	0
Oklahoma: Oklahoma City	1	0	0	0	1	1	0	0	0
Texas:	i		1	1	1				-
Galveston Houston	0	0	0	0	0	1	0	0	0
PACIFIC									
Washington:			_		_	_	_		_
Spokune Oregon:	1	0	0	0	0	0	0	0	0
Portland	0	0	0	1	0	0	0	0	0
Los Angeles	1	1	0	0	1	1	1	ا ه ا	0

¹ Typhus fever, 2 cases at Baltimore, Md.

The following table gives the rates per 100,000 population for 103 cities for the five-week period ended June 5, 1926, compared with these for a like period ended June 6, 1925. The population figures was in computing the rates are approximate estimates as of July 1,

1925 and 1926, respectively, authoritative figures for many of the cities not being available. The 103 cities reporting cases had an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and more than 29,-750,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, May 2 to June 5, 1926-Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925 1

### DIPHTHERIA CASE RATES

					Week	ended				
	May 9, 1925	May 8, 1926	May 16, 1925	May 15, 1926	May 23, 1925	May 22, 1926	May 30, 1925	May 29, •1926	June 6, 1925	June 5, 1926
103 cities	² 152	³ 115	4 158	3 121	148	³ 117	5 144	³ 122	6 152	7 118
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central West South Central Pacific	98	106 125 89 3 195 75 02 60 146 178	149 237 102 205 81 32 53 148 13 132	87 135 96 3 199 77 52 82 182 175	122 202 101 243 83 37 40 129 157	78 138 117 3 145 71 36 47 127 164	110 210 100 187 5 72 111 62 139 160	80 145 108 3 163 96 42 65 127 159	125 243 92 183 688 11 40 74 138	8 79 134 10 120 3 207 11 51 12 17 56 109 132
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		MEA	SLES (	DASE	RATES		1	<u> </u>	1	<u></u>
4 103 cities	² 603	3 1, 712	4 599	³ 1, 565	579	3 1, 434	5 569	³ 1, 283	6 594	7 1, 001
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	100	1, 714 1, 420 1, 454 34, 458 1, 942 3, 248 125 883 661	1, 145 765 7795 76 311 152 13 55	1, 198 1, 198 1, 371 34, 134 1, 933 3, 461 155 1, 393 679	1, 014 615 888 233 309 310 22 176 124	1, 075 1, 133 1, 372 33, 437 1, 659 2, 999 142 1, 384 693	836 701 839 137 242 200 18 240 157	1, 064 956 1, 252 93, 061 1, 542 2, 376 112 1, 302 803	0 393	3 736 751 10 1, 042 3 2, 209 11 1, 244 12 1, 702 86 1, 247 696
	sc	ARLE	r fev	er ca	SE RA	TES				
103 cities	2 311	3 294	4 338	3 826	297	3 309	6 267	3 274	⁶ 256	, T 229
New England. Middle A Hantic. East North Central. West North Central. South Atlantic. East South Central. West South Central. West South Central. Mountain. Pacific.	100 242 84	222 217 310 3933 177- 187 176 137 208	345 336 368 705 156 299 70 342 13 187	312 249 356 3870 222 202 155 246 259	338 264 388 539 138 226 44 314 155	288 256 341 3721 195 176 172 173 294	204 270 321 514 514 5168 62 398 133	258 212 339 3 695 160 171 116 100 181	256 262 293 466 125 116 84 324 144	\$ 251 209 10 246 3 416 11 175 12 94 168 218 - 170

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1925 and 1926, respectively.

3 Grand Forks, N. Dak., not included.

4 Superior, Wis., and Tacoma, Wash., not included.

5 Charleston, W. Va., not included.

6 Wilmington, N. C., not included.

7 Concord, N. H., Madison, Wis., Grand Forks, N. Dak., Norfolk, Va., Wilmington, N. C., and Cevington, Ky., not included.

8 Concord, N. H., not included.

9 Superior, Wis., not included.

9 Superior, Wis., not included.

10 Madison, Wis., not included.

11 Nortolk, Va., and Wilmington, N. C., not included.

12 Covington, Ky., and Wilmington, N. C., not included.

13 Tacoma, Wash., not included.

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Summary of weekly reports from cities, May 2 to June 5, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925—Continued

SMALLPOX CASE RATES

						-				
					Week	ended				
	May 9, 1925	May 8, 1926	May 16, 1925	May 15, 1926	May 23, 1925	May 22, 1926	May 30, 1925	May 29, 1926	June 6, 1925	June 5, 1926
103 cities	2 45	* 26	1 44	³ 26	58	8 18	8 47	³ 19¸	6 45	71
New England Middle Atlantic East North Central West North Central South Atlantic East South Central Most South Central Most South Central Mountain Pacific	2 6 41 58 42 347 26 46 2167	0 0 22 3 58 30 73 159 36 57	0 7 753 76 35 173 35 28 181	0 20 3 36 39 119 116 55 67	0 2 66 66 61 404 123 28 177	0 0 18 3 28 24 62 95 18 51	0 2 54 68 10 389 53 55 160	0 1 13 3 44 28 62 99 36 32	0 4 61 92 637 105 31 37 182	10 8 4 11 3 12 8 4 2
	ТЗ	PHOL	D FEV	ER CA	SE RA	TES				
103 cities	² 13	38	4 13	3 8	18	³ 11	⁵ 15	\$ 10	6 24	7
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central West South Central Mountain Pacific	5 13 8 2 27 42 44 0	9 7 4 8 6 13 16 17 0	12 10 9 6 0 25 58 75 0	0 10 5 2 4 4 0 43 9 8	24 19 5 4 36 68 62 18 6	9 7 5 8 8 32 10 26 9	17 9 7 10 539 47 62 9 8	7 5 9 3 4 20 31 13 0 11	29 26 9 8 8 39 37 84 74 8	10 3 11 3 12 ]
	I	NFLU:	ENZA :	DEATI	TAR E	ES				
96 cities	14	25	13 14	16	14	15	5 12	12	6 10	14
New England Middle Atlantic East North Central West North Central South Atlantic East South Central Most South Central Most South Central Mountain Pacific	10 10 15 11 19 47 15 18	14 22 29 13 19 99 47 18 4	7 12 10 11 10 74 10 55 13 12	5 17 18 6 17 31 28 18 4	5 11 11 17 6 79 19 18 22	12 16 18 8 11 36 24 0 4	7 9 13 17 8 12 37 29 0 7	9 11 13 11 26 9 9	2 11 10 4 6 6 47 5 28 11	8 10 11 12 3 1
	P	NEUM	ONIA	DEAT	H RAT	ES		unificamental superior et a	- 15000 mm	general extension and
96 cities	145	163	13 123	150	123	141	§ 119	å 120	1 123	15 10
New England Middle Atlantic East North Central West North Central South Atlantic East South Central Most South Central Most South Central Mountain Pacific	156 184 123 74 148 147 131 120 109	170 174 178 121 169 223 118 82 78	129 143 118 55 129 152 106 157	165 165 147 81 182 182 137 91	110 143 116 76 125 126 73 166 120	144 173 133 94 148 171 90 82 53	110 145 111 57 147 158 73 74 73	123 145 100 83 * 111 171 109 91 64	69 167 107 55 6 138 116 63 92 116	* 11 13 10 9 5 10 8 12 13 19 14

Spokane, Wash., not included.

Grand Forks, N. Dak., not included.

Superior, Wis., and Tacoma, Wash., not included.

Superior, Wis., and Tacoma, Wash., not included.

Winnington, N. C., not included.

Winnington, N. H., not included.

Notfolk, Va., and Wilmington, N. C., not included.

Notfolk, Va., and Wilmington, N. C., not included.

Towngton, Ky., not included.

Tacoma, Wash., not included.

Tacoma, Wash., not included.

Cencord, N. H., Madison, Wis., Norfolk, Va., Wilmington, N. C., and Covington, Ky., not included.

Cencord, N. H., Madison, Wis., Norfolk, Va., Charleston, W. Va., Wilmington, N. C., and Covington, Ky., not included.

Ny., not included.

Ny., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively

Group of cities	Number of cities	Number of cities	Aggregate po cities repo	opulation of rting cases	Aggregate population cities reporting death		
•	reporting cases	reporting deaths	1925	1926	1925	1926	
Total	103	96	29, 944, 996	30, 473, 129	29, 251, 658	29, 764, 201	
New England Middle Atlantie East North Central West North Central. South Atlantie. East South Oentral West South Central. Mountain Pacific	12 10 16 14 21 7 8 9 6	12 10 16 11 21 7 6 9 4	2, 176, 124 10, 346, 970 7, 481, 656 2, 594, 962 2, 716, 070 993, 103 1, 184, 057 563, 912 1, 888, 142	2, 206, 124 10, 476, 970 7, 655, 436 2, 634, 662 2, 776, 070 1, 004, 953 1, 212, 057 572, 773 1, 934, 084	2, 176, 124 10, 346, 970 7, 481, 656 2, 461, 380 2, 716, 070 993, 103 1, 078, 198 563, 912 1, 434, 245	2, 206, 124 10, 476, 970 7, 655, 436 2, 499, 036 2, 776, 070 1, 004, 953 1, 103, 695 572, 773 1, 469, 144	

## FOREIGN AND INSULAR

### THE FAR EAST

Report for week ended May 29, 1926.—The following report for the week ended May 29, 1926, was transmitted by the far eastern bureau of the health section of the League of Nations' secretariat, located at Singapore, to the headquarters at Geneva:

	Pla	gue	Cho	olera		all- ox		Pla	gue	Che	olera		all- ox
Maritime towns	Cases	Deaths	Cases .	Deaths	Cases	Deaths	Maritime towns	Cases	Deaths	Cases	Deaths	Cases	Deaths
Egypt: Suez	3 0  1 0 0	0 0 2 0 1 0 1 0 0	0 0  219 5 27	0 0 0 0 0 118 5 20	0 4 26 2 3 1 7	03 11 31 30 0	Hongkong China: Shanghai Amoy Sarawak: Kuching Japan: Osaka Kwangtung: Dairen Port Arthur	0 13 0 0 0	0.0000 00	0 0 0 0 0	0 0000 00	1 1 3 4 1	0 2 0 0 0 0

Telegraphic reports from the following maritime towns indicated that no case of plague, cholera, or smallpox was reported during the week:

#### ASTA

British India.—Chittagong, Cochin, Tuticorin.

Cordon.—Colombo.

Federated Malay States .- Port Swettenham.

Straits Scttlements.-Penang, Singapore.

Dutch East Indies.—Batavia, Surabaya, Samarang, Cheribon, Belawan Deli, Palembang, Sabang, Makassar, Menado, Banjermasin, Balik-Papan, Tarakan, Pontianak, Padang.

British North Borneo. - Sandakan.

Portuguese Timor .- Dilly.

Philippine Islands.-Manila, Iloilo, Jolo, Cebu, Zamboanga.

French Indo-China. - Turane.

Formosa.- Keelung.

Japan.—Nagasaki, Yokohama, Shimonoseki, Moji, Kobe, Niigata, Tsuruga, Hakodate.

Korea.—Chemulpo, Fusan.

Manchuria.—Antung, Mukden, Changchun, Harbin.

U. S. S. R.-Viadivostok.

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#### AUSTRALASIA AND OCEANIA

Australia.—Adelaide, Melbourne, Sydney, Brisbane, Rockhampton, Townsville, Port Darwin, Broome, Fremantle, Carnarvon, Thursday Island.

New Guinea.-Port Moresby.

New Zealand.—Auckland, Wellington, Christchurch, Invercargill, Dunedin.

New Caledonia. - Noumea.

Hawaii.-Honolulu.

#### AFRICA

Egypt.—Alexandria, Port Said.

Anglo-Egyptian Sudan .-- Port Sudan.

Eritrea.-Massaua.

French Somaliland .- Jibuti.

British Somaliland.—Berbera.

Italian Somaliland.-Mogadiscio.

Kenya,-Mombasa.

Tanganyika.—Dar-es-Salaam.

Seychelles .- Victoria.

Mauritius.—Port Louis.

Portuguese East Africa.-Mozambique, Beira.

Union of South Africa. - Durban, East London, Port Elizabeth, Cape Town.

Reports had not been received in time for distribution from:

British India.—Rangoon, Calcutta, Vizagapatam.

Madagascar.—Tamatave, Majunga.

Portuguese East Africa.—Lourenco Marques.

Zanzibar.—Zanzibar.

#### BRAZIL

Yellow fever—Parahyba—Natal.—An outbreak of yellow fever in Parahyba and Natal, Brazil, late in March was reported to be checked May 17, 1926. Thirty cases and several deaths were reported in Parahyba, and a smaller number in Natal.

### CANADA

Communicable diseases—May 9-29, 1926.—The Canadian Ministry of Health reports certain communicable diseases in seven Provinces of Canada for the period May 9 to May 29, 1926, as follows:

Disease	Nova Scotia	New Bruns- wick	Que- bec	Onta- rio	Mani- toba	Saskat- che- wan	Al- berta	Total
Cerebrospinal meningitis Influenza Pollomyelitis Smallpox Typhoid fever	224	1	2 1 27	1 25 24	8 4	5 9	6	2 225 2 38 70

### **CZECHOSLOVAKIA**

Communicable diseases—January-March, 1926.—During the three months ended March 31, 1926, communicable diseases were reported in Czechoslovakia as follows:

Disease	Cases	Deaths	Provinces showing greatest number of cases and deaths
Anthrax Cerebrospinal meningitis Diphitheria Dysentery Malaria Paratyphoid fever B Puerperal infection Scarlet fever Smallpox Trachoma Typhoid fever Typhus fever Typhus fever	6 74 1,383 57 3 12 128 3,787 1 830 1,198 111	2 19 114 1 38 77 1	Slovakia: Cases, 20. Bohemia, 1 death. Slovakia. Bohemia.

### EGYPT

Plague—May 7-13, 1926—Summary.—During the week ended May 13, 1926, 11 cases of plague, of which one case occurred at Alexandria, were reported in Egypt, making a total of 32 cases reported from January 1 to May 13, 1926, as compared with 40 cases reported during the corresponding period of the preceding year.

Later occurrence.—Later occurrence of plague in Egypt has been reported as follows: Suez—May 16, 1 case with 1 death (bubonic); province of Beni-Suef, May 16-20, 5 cases with 4 deaths (bubonic and septicemic); Province of Minia, May 17, 1 case (bubonic).

### ESTHONIA

Communicable diseases—March-April, 1926.—Cases of communicable diseases have been reported in the Republic of Esthonia, for the months of March and April, 1926, as follows:

	Disease	March, 1926	April, 1926
Diphtheria	ningitis	1 47	37
deasies carlet fever Cuberculosis		82 288 197	586 157 143
Pyphoid fever		28 5	14

### INDIA

Epidemic plague—Punjab.—Under date of May 8, 1926, epidemic was declared present in the Punjab, India, with cases in nearly every district of the Province. The greatest prevalence was reported in the eastern districts. During the second week in April, 1926, 7,336 cases with 5,379 deaths were reported.

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### **JAMAICA**

Smallpox (alastrim)—April 25-May 29, 1926.—During the five weeks ended May 29, 1926, 102 cases of smallpox (alastrim) were reported in the island of Jamaica, exclusive of Kingston. No cases were reported in Kingston.

Prevalence of other diseases.—During the period under report other diseases were reported in the island, exclusive of Kingston, as follows: Chicken pox, 42 cases; tuberculosis (pulmonary), 59 cases; typhoid fever, 37 cases. At Kingston the occurrence of the diseases named was reported as follows: Chicken pox, 3 cases; tuberculosis (pulmonary), 13 cases; typhoid fever, 10 cases. Population of island, estimated, 858,118; population of Kingston, census of 1921, 62,707.

### MEXICO

Anthrax—Vera Cruz.—During the week ended June 6, 1926, a fatal case of anthrax was reported at Vera Cruz, Mexico.

### PANAMA CANAL

Communicable diseases—April, 1926.—During the month of April, 1926, communicable diseases were reported in the Canal Zone, and at Colon and Panama, as follows:

Disease	Cana	Zone	Co	lon	Pan	ama		ted in ocalities	To	tal
1	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
Chicken pox Diphtheria Dysentery Hookworm Malaria Moasles	2 2  25 3		1 3 4 1 3		4 5 1 31	1	6 38 17 8	2	6 8 10 73 43 21	1 2
Meningitis  Mumps Pneumonia ¹ Tuberculosis ¹ Whooping cough	3 1	1 3 1 1	2 4	4 4	1	12 17	7 1	5 4	3 9 7	24 26 1

¹ Only deaths reported.

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

## Reports Received During Week Ended June 25, 1926 ¹ CHOLERA

Place	Date	Cases	Deaths	Remarks
India Madras Rangoon	May 9-15. Apr. 18-May 8.1.	2 94	1 48	Apr. 18-24, 1926: Cases, 3,514; denths, 2,198.

¹ From medical officers of the Public Health Service, American consuls, and other sources.

## Reports Received During Week Ended June 25, 1926—Continued

### PLAGUE

Place	Date	Cases	Deaths	Remarks
Egypt				May 7-13, 1926: Cases, 11; total Jan. 1-May 13, 1926-32; total for corresponding period 1925- cuses, 40.
Suez	May 16	1	1	Buhonic.
Province— Beni-Suef Minia	May 16-20 May 17	5 1	4	Bubonic and septicemic. Bubonic.
IndiaBombay	Apr. 25-May 1	2	2	Apr. 18-24, 1926: Cases, 11,032 deaths, 9,068.
Karachi Madras Punjab District	! May 0-15	1 37	22	Presidency.
Kangoon Siam:	Apr. 18-24	7, 336 26	5, 379 25	Epidemic, May 8, 1926.
Bangkok	Apr. 25-May 1	1	3	
	SMAI	LPOX		
Algeria:				
Algiers British East Africa:	May 11-20	6		
Kenya— Tanganyika Canada:	Apr. 11-17	2		
British Columbia— Vancouver Ontario	May 24-30 May 9-29 June 6-12	1 25		
China: Hamilton	1	1		
Manchuria— An-shan Fushun	May 2-8	3 6		South Manchuria Ry. line. Do.
Fushun Kai-yuan Kungehuling Liao-yang	do	i		Do.
Kungenuling Liao-yang	do	1 1		Do. Do.
Penhsihu	do	5 2		Do. Do.
Egypt: Alexandria Cairo	Apr. 30-May 13 Jan. 8-14	11 5	5	
Great Britain: England and Wales	May 16-22 May 24-29do	162		
Newcastle-upon-Tyne	do	i		
India Bombay	Apr. 25-May 1	34	19	Apr. 18-24, 1926: Cases, 7,330 deaths, 1,700.
Karachi	May 9-15	17	7	
Madras Rangoon Mexico:	Apr. 25-May 8	4	1	
Gundalajara San Luis Potosi Persia;	June 1-7 May 30-June 5		1 2	
Teheran Portugal:	Feb. 28-Mar. 21	Į.	6	
Lisbon Spain: Valencia	May 16-29 May 23-29	1	3	
Union of South Africa: Orange Free State	Apr. 25-May 1			Outbreaks.
Barriera Principal de la descripación de la descripación de la descripción de la descripción de la descripción	TYPHU	S FEVE	R	
Pownts		I		
Egypt: Alexandria Port Said Esthonia	Apr. 30-May 6 May 6-13	1 1		March, 1926: Cases, 5. April
Union of South Africa: Cape Province	Apr. 30-May 1			1926: Cases, 4. Outbreaks, in four districts, in 1
*				localities.

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## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

## Reports Received During Week Ended June 25, 1926—Continued YELLOW FEVER

Place	Date	Cases	Deaths	- Remarks
Brazil				MarMay 17, 1926: 30 cases, several deaths in Parahyba; a smaller number in Natal. Re- ported checked May 17, 1926.

## Reports Received from December 26, 1925, to June 25, 1926 ¹ CHOLERA

Place	Date	Cases	Deaths	Remarks
Chosen	October-Novem- ber, 1925.	12	5	
French Settlements in India Do	Dec. 1-31 Jan. 1-Mar. 6	880 435	712 349	
India	- NT 1 00			Oct. 18, 1925, to Jan. 2, 1926:
Calcutta	Nov. 1-28	101	89	Cases, 21,316; deaths, 12,371 Jan. 3-Mar. 13, 1926; Cases, 31,105; deaths, 17,859. Mar. 21-Apr. 24, 1926; Cases, 26,050;
Do	Dec. 6-26 Dec. 27-Jan. 16		54 41	21 105. deathe 17 250 Mar
Do	Ian 24-Anr 3	464	417	21-Apr. 24, 1928: Cases, 26,050:
Madras	Jan. 24-Apr. 3 Nov. 15-Jan. 2	174	70	deaths, 18,233.
Do	Jan. 3-Apr. 17	146	90	
Do	May 9-15. Nov. 8-Dec. 3	2	. 1	
Rangoon	Nov. 8-Dec. 3	4	4	
Do	Jan. 24-May 8	117	67	G 4 3 70 5 700F-
Indo-China				September-December, 1925:
Province—	Sept. 1-30	2	9	Cases, 13; deaths, 7.
Annam Cambedia	Dec. 1-31	2	2	
Cochin China	Sept. 1-Dcc. 31	6	4	
Saigon	Jan. 4-17	ž	2	Including 100 square kilometers
D				of surrounding country.
Do	Apr. 5-May 1	80	73	Including Cholon.
Tonkin	Sept. 1-Nov. 30	3		
Japan	Aug. 30-Oct. 17	409		
	Oct. 25-Dec. 26	113		
* Do Philippine Islands:	Jan. 3-30	13		
Philippine Islands:	Nov. 9-Jan. 3	1.5	10	
Manila	Jan. 4-May 1	ĩ	28	
Province—	oun. 1 many management	-	_	
Bataan	Nov. 30-Dec. 26	29	25	
Do	Jan. 2-16	1	1	
Batangas	Jan. 24-Feb. 20	13	13	
Bohol	Jan. 23-30	1	1	
Bulacan	Jan. 23-30 Oct. 18-Nov. 7	92	64	
po	1 Nov. 23~Dec. 31	200	88	,
Do	Jan. 2-30	18	6 14	
Laguna Do	Nov. 23-Dec. 26 Jan. 24-Feb. 6	10	6	,
Leyte		2	2	
Mindoro		35	30	
Do		64	55	
Do Nueva Ecija	Nov. 30-Dec. 13	7	5	1
Pampanga	Nov. 1-7. Nov. 23-Dec. 31	1	1	•
Do	Nov. 23-Dec. 31	113	85	
Do	Jan. 2-Mar. 3	39	35	1
Rizal	Sept. 27-Nov. 21	75	21	}
Do		14 89	30	
Do	Jan. 3-Feb. 20 Nov. 8-Dec. 13		14	
Russia	May-June		1.7	
Do	July-August			1
Siam:	land traganeration	1 -		1
Bangkok	Oct. 4-Nov. 14		68	1
Do	Nov. 22-Dec. 26	270	149	1
Do	Dec. 27-Mar. 13	. 398	275	1
Do	Mar. 21-27	. 90	52	
Do	Apr. 4-29	211	120	
On vessel:	l not a	9	1	Arrived at Bangkok, Siam
Steamship	Oct. 3	-  9		Cases in coolie passengers.
Ship Selandia	Apr. 15	_ 1	L	Landed at Singapore, Straits Set
Daily Dulkildio		7 ^	1	tlements.
*	1	1	1	1

¹ From medical officers of the Public Health Service, American consuls, and other sources.

# Reports Received from December 26, 1925, to June 25, 1926—Continued PLAGUE

Place	Date	Cases	Deaths	Remarks
ArgentinaBuenos Aires	Jan. 24–30	1		Jan. 24-30, 1026: 6 cases, occurring in interior Provinces of Salta and Santa Fo.
Azores: St. MichaelsBelgium:	Jan. 17-Apr. 3	9	4	1
VilvordeBrazil:	Dec. 1-8	1	1	
Bahia	Nov. 8-Dec. 28 Dec. 27-Jan. 30	3 4	1 2	
Santos Sao Paulo British East Africa: Kenya—	Dec. 8-21 Reported Mar. 25	4	1	
Kisumu Do	Nov. 22-Dec. 5 Jan. 31-Mar. 20 Sopt. 1-Dec. 31	1 15	2 3	
Uganda Protectorate Do	Sopt. 1-Dec. 31 Jan 1-Feb. 28	468 150	426 143	
Canary Islands: La Laguna	Dec. 24	. 3	2	
Las Palmas Do	Jan 7	1		
Santa Cruz de Tenerile Do	Jan. 7	3 3		
Celebes:		_		
Makassar Ceylon:	Dec. 29-Feb. 2	12	12	Netherlands East Indies.
Colombo Do Do	Nov. 15-Dec. 5 Dec. 27-Jan. 16	3 2	3 2	1 plague rodent.
China:	Jan. 24-Apr. 24	. 6	6	Feb. 14-20, 1926: 2 plague rodents.
Nanking Ecuador:	Nov. 15-Apr. 24			Prevalent.
Ambato Eloy Alfaro	Mar. 31 Jan. 1-15		5	
Guayaquil. Do	Nov. 1-Dec. 1	31	12	Rats taken, Nov. 1-Dec. 31, 1925,
	Jan. 1-May 15	66	29	Rats taken, Nov. 1-Dec. 31, 1925, 49,370; rats found infected, 281, Rats taken, Jan. 1-May 15, 1926: 93,539; rats found infected, 666.
Lotacunga Recreo (country estate)	Apr. 12 Jan. 1-15	i		Present.
Alexandria	Mar. 10-Apr. 22	4	i	Jan. 1-Dec. 9, 1925; Cases, 138, Jan. 1-May 13, 1926; Cases, 32,
Beni-Suef Do	Nov. 18 May 16-20	1 5	1 4	,,
DoFayoum Province Oharbia Province	Dec. 3-9	1 5	1	
Minia Province	Mov. 18 May 16-20 Dec. 3-9 Mar. 0-30 Mar. 4-May 17 Mar. 27-May 16	2	3	
Greece:			2	
Athens Do	Nov. 1-30 Jan. 1-Mar. 31	18 25	4	Including Piræus,
Herakleion Patras	Feb. 4	14	i	On island of Crete.
Hawaii Territory	Feb. 2			1 plague-infected rodent found near Hamakua Mill Co.
Honokaa Kakuihaela	Mar. 16 Mar. 19	2 1	<u>1</u>	1 death, suspected plague.
Paauilo				Jan. 29, 1926: Plague-infected rat found in vicinity. Oct 18, 1925-Jan. 2, 1926: Cases, 15,135; deaths, 10,677. Jan. 3- Mar. 13, 1926: Cases, 53,563; deaths, 41,553. Mar. 21-Apr. 24, 1926: Cases, 53,563; deaths, 21,563.
India				Oct 18, 1925-Jan. 2, 1926; Cases,
Bombay Do	Jan. 3-May 1	21	18	15,135; deaths, 10,677. Jan. 3- Mar. 13, 1926; Cases. 53,563;
Karachi	Dec. 6-12 Nov. 1-Dec. 19	1 4	1 3	deaths, 41,553. Mar. 21-Apr.
Mairas Prosidency	Dec. 6-12	24 75	11	deaths, 41,553. Mar. 21—Apr. 24, 1926: Cases, 53,583; deaths, 43,425.
100	110 14 10-EL	35	22	
Do.	Dec. 20-26 Jan. 3-Apr. 24	1,417	64 846	
Do	Oct. 25. Dec. 26	7, 336 23	5, 379	Epidemic, May 8, 1926.
1), Do	Dec. 27-May 8	150	138	

## Reports Received from December 26, 1925, to June 25, 1926—Continued

### PLAGUE—Continued

Place	Date	Cases	Deaths	Remarks
Indo-China				September-December, 1925:
Province—				Cases, 28; deaths, 26.
Cambodia	Sept. 1-Nov. 30	13	13	
Coehin China	Sept. 1-Dec. 31	15	13	
SaigonIraq:	Apr. 5-11	1		
Bardad	Dec. 13-Jan. 2	7	3	
BagdadDo	Jan.10-Apr. 17	111	61	
Java:			0.	
Batavia	Oct. 24-Nov. 6	94	89	Province.
Do	Nov. 14-Jan. 1	315	297	
Do	Jan. 2-Mar. 12	483	468	
Do Cheribon	NIBE. 19-APE. 23	. 61	60 166	
Do	Mar. 19-Apr. 23 Sept. 27-Oct. 17 Nov. 15-Dec. 26 Jan. 3-Mar. 6 Oct. 20-Nov. 9		198	
Do	Jan. 3-Mar. 6		191	
Djokjakarta	Oct. 20-Nov. 9			Epidemic in 1 locality.
Kediri				Do.
Koemmgan	Dec. 27-Jan. 16		114	
Do Pekalongan	Cont of Oct 17		103 42	
Do	Nov 8-Dec 26		252	
Do	Feb. 14-Mar. 6		90	
Probolinggo	Dec. 27-Jan. 16 Feb. 7-Mar. 6 Sept. 27-Oct. 17 Nov. 8-Dec. 26 Feb. 14-Mar. 6 Feb. 12			Epidemic. Port.
Rembang Surabaya				Do.
Surabaya	Oct. 11-Dec. 26	59	59	
Do	Dec. 27-Apr. 10 Sept. 27-Oct. 17 Nov. 8-Dec. 26 Feb. 21-Mar. 6	46	46	
, Tegal Do	Nov & Dec 26	0	6 31	
Do	Feb. 21-Mar. 6.		11	
Madagascar				Nov. 1-Dec. 31, 1925: Cases, 632;
Province-				deaths, 593. Jan. 1-31, 1926: Cases, 611; deaths, 565. Mar. 1-31, 1926: Cases, 186; deaths,
Ambositra	Dec. 16-31 Jan. 1-15	9	7	Cases, 611; deaths, 565. Mar.
Do	Jan. 1-15	2	2 3	1-31, 1926: Cases, 186; deaths, 179.
Fort Dauphin	Tan 16-30	4	4	110.
Itasy	Sept. 16-30 Jan. 16-Mar. 15 Sept. 16-Oct.30 Nov. 16-Dec. 31	20	20	
Do	Nov. 16-Dec. 31	34	34	
Do	Jan. 1-15	29	29	
Do Moramanga	Feb. 1-15	29	29	
woramanga	Sept. 16-Dec. 31 Jan. 1-Mar. 31	49 56	48 52	
Do Tananarive	Juli, 1-iviur. oi	90	02	Sept. 16-Nov. 30, 1925; Cases.
Town-				Sept. 16-Nov. 30, 1925; Cases, 368; deaths, 341. Dec. 16-31,
Tamatave (Port)	Sept. 16-Nov. 30 Feb. 1-Mar. 15	42	11	1925; Cases, 152; Geatins, 195.
_ Do	Feb. 1-Mar. 15	5	3	Jan. 1-Mar. 31, 1926: Cases,
Tananarive	Sept. 16-30	11	.2	653; deaths, 554.
Do	Sept. 16-30 Nov. 1-30 Jan. 1-Mar. 31 Sept. 20-Dec. 26	38	11 37	
Mauritius Island	Sent. 20-Dec. 26	21	18	, ,
Moca	Dec. 1-31 Oct. 1-Nov. 30	. 2	18 2	
Pamplemousses	Oct. 1-Nov. 30	3	.2	4
Port Louis Rivière du Rempart	Oct. 1-Dec. 31	13	9	
Morocco:	October	2		
Tangier	May 9-15	1	1	
Nigeria	Aug. 1-Dec. 31 Jan. 1-31	594	447	ž.
Do	Jan. 1-31	24	21	
Persia:	0 1 01 77 01	ĺ		
Teheran	Oct. 21-Nov. 21		12	January-March, 1926: Cases, 383;
Peru Barranca and Supo	Mar 1-31	4	6	deaths, 148.
Cânete	do	Î		
Cânete	do			Present.
Cascas	do	15	5	
Chiclayo	do		4	Correter estates
Chinaba	do	16 14	8	Country estates.
Caras	do	12		1
Cutorvo				Present.
Huacho	Jan. 26	.} 15		Port 60 miles north of Callac.
Lacranmarca	Mar. 1-31	. 6		In hamital Come acces in Duan
Lima	Jan. 1-31	20		In hospital. Some cases in Prov- ince.
Mallanda	do	1		12 or 15 cases reported unoffi-
Mollendo Do	Mar. 1-31	1		cially.
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# Reports Received from December 26, 1925, to June 25, 1926—Continued PLAGUE—Continued

Place	Date	Cases	Deaths	Remarks
Peru—Continued				
Moro	Mar. 1-31			Present.
Pacasmayo Salaverry San Pablo	do	2		1
Salaverry	. do	5	2	
San Pablo	do		.	Do.
Trujiilo	.la0	15	5	
Russia	May-June	67		
Do Senegal	July 1-Dec. 31	256		
	hor	45	25	
Siam	Aug. 23-Dec. 26 Dec. 27-Jan. 30	65	53	
Do	Dec. 27-Jan. 30	16	9	
Bangkok Do	Nov. 15-28 Jan. 3-30	3	3	
Do	Fob 7-90	38	33	
Do	Feb. 7-20 Feb. 28-May 1	11 8	5 5	
Straits Settlements:	Feb. 25-141ay 1	٥	,	
Singapore	Nov. 1-Dec. 5	8	8	
Do	Jan. 3-Mar. 20	3	3	
lyria:	3Tor: 11 00			
Beirut	Nov. 11-20 Jan. 21-31	1 1		
Do Inion of South Africa	VAL. 21-01			Mar 7-13 1996: Clases 3: Time
				Mar. 7-13, 1926: Cases, 3; Euro peun, 2. Mar. 21-27, 1926 Cases, 12; deaths, 4. Apr. 4-17 1926: Cases, 7; deaths, 4.
Cape Province	Apr. 4-10	1	1	Cases, 12: deaths, 4. Aur 4-17
Cradock district	Apr. 11-21	ã	3	1926. Cases, 7: deaths, 4.
Kimberley district	Apr. 11-21 Dec. 13-19 Dec. 6-12 Nov. 15-21	ī		Native.
Middleburg district	Dec. 6-12	1		European.
Steynsburg district	Nov. 15-21	1		Native. On farm.
Steynsburg district Winburg district Orange Free State	Feb. 21-27	1		
Orange Free State				Mar. 14-Apr. 10, 1926: Clases, 11
Boshof district	NT0= 00 Dec 5			deaths, 5.
Bothaville district	Nov. 29-Dec. 5	1	1	In nativo.
Bradfort district	Dec. 6-12	1	1	Native. On farm.
Grandfort district	Mar. 28-Apr. 3 Mar. 21-27	1 3	1 1	Theretones in come family was
CIACIOI CIBILION	With St-2/	0		European, in same family, pneu monic.
Hoopstad district	Mar. 7-Apr. 17	10	5	monte,
Kroonstad district	Mar. 14-20	ĭ		Native. On farm,
Windurg district	Mar. 14-Apr. 3	11	5	ATGGETTON OTH MARINE,
On vessel:	1			
Steamship Cid				Jan. 29, 1026. Plague rat. A
	1			Jan. 29, 1926. Plague rat. A. Buenaventura, Colombia. Ra
				was killed while jumping
•	Į.			ashore from vessel.
	<del></del>	*** **		
	SMAL	LPOY		
		~ ~ ~ · · ·	_	
losria:		24 4714		
Alpiors				
Algiers	Nov. 21-Dec. 31	177		
Algiers	Nov. 21-Dec. 31 Jan. 1-10	177 64		
Algiors Do Do Labia:	Nov. 21-Dec. 31	177		
Algiers Do Do xrabia: Aden	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-May 20 Nov. 29-Dec. 5	177 64 87		Imported
Algiors	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-May 20 Nov. 29-Dec. 5	177 64	1	Imported.
Algiors	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-May 20 Nov. 29-Dec. 5 Jan. 10-May 15	177 64 87	1	Imported.
Algiors	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-May 20 Nov. 29-Dec. 5	177 64 87		Imported.
Algors	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-May 20 Nov. 29-Dec. 5 Jan. 10-May 15	177 64 87		Imported.
Algiors Do rabia: Aden Do rgontina: Rosario custralia: Queensland	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-May 20 Nov. 29-Dec. 5 Jan. 10-May 15 Octobor	177 64 87 1		Imported.
Algiors	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-May 20 Nov. 29-Dec. 5 Jan. 10-May 15	177 64 87		Imported.
Algiors	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-May 20 Nov. 29-Dec. 5 Jan. 10-May 15 Octobor	1777 64 87 1 11		•
Algiors	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-May 20 Nov. 20-Dec. 5 Jan. 10-May 15 Octobor Dec. 9-15 Feb. 2-Apr. 28.	177 64 87 11	1	Present. Reported as alastrim.
Algiors	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-May 20 Nov. 20-Dec. 5 Jan. 10-May 15 Octobor Dec. 9-15 Feb. 2-Apr. 28.	177 64 87 11	1	Present. Reported as alastrim.
Algiors	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-May 20 Nov. 29-Dec. 5 Jan. 10-May 15 Octobor	177 64 87 11	1	Present. Reported as alastrim. Present. In Nassau district. Stated to
Algiors	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-May 20 Nov. 20-Dec. 5 Jan. 10-May 15 Octobor Dec. 9-15 Feb. 2-Apr. 28 Feb. 23	177 64 87 1	1	Present. Reported as alastrim.
Algiors	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-May 20 Nov. 20-Dec. 5 Jan. 10-May 15 Octobor Dec. 9-15 Feb. 2-Apr. 28 Feb. 23	177 64 87 1	1	Present. Reported as alastrim. Present. In Nassau district. Stated to
Algiors	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-May 20 Nov. 20-Dec. 5 Jan. 10-May 15 Octobor Dec. 9-15 Feb. 2-Apr. 28 Feb. 23	177 64 87 1	1	Present. Reported as alastrim. Present. In Nassau district. Stated to
Algiors	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-May 20 Nov. 20-Dec. 5 Jan. 10-May 15 Octobor Dec. 9-15 Feb. 2-Apr. 28 Apr. 28 Feb. 23 Dec. 1-31 Jan. 1-Mar. 31 Jan. 10-May 15	177 64 87 1	1   12 145	Present. Reported as alastrim. Present. In Nassau district. Stated t.
Algiors	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-May 20 Nov. 20-Dec. 5 Jan. 10-May 15 Octobor Dec. 9-15 Feb. 2-Apr. 28 Apr. 28 Feb. 23 Dec. 1-31 Jan. 1-Mar. 31 Jan. 10-May 15	1777 64 87 11	1   12 145	Present. Reported as alastrim. Present. In Nassau district. Stated to
Do	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-May 20 Nov. 20-Dec. 5 Jan. 10-May 15 Octobor Dec. 9-15 Feb. 2-Apr. 28 Apr. 28 Feb. 23 Dec. 1-31 Jan. 1-Mar. 31 Jan. 10-May 15	1777 64 87 1 11 1 1 2 38 134 65 5	12 145 13 73	Present. Reported as alastrim. Present. In Nassau district. Stated in
Algiors	Nov. 21-Dec. 31 Jan. 1-10 Jan. 21-May 20 Nov. 20-Dec. 5 Jan. 10-May 15 Octobor Dec. 9-15 Feb. 2-Apr. 28 Feb. 23	1777 64 87 11	1   12 145	Present. Reported as alastrim. Present. In Nassau district. Stated to

## Reports Received from December 26, 1925, to June 25, 1926—Continued

### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
British East Africa:				
Kenya—	Nov 15-Dec 10	14	6	
Mombasa Do	Nov. 15-Dec. 19 Dec. 27-Mar. 20	2	· · · · ·	
Tanganyika territory	Apr. 11-17	2		
Dar-es-Salaam	Feb. 21-27	1		
Uganda Protectorate	Feb. 21–27 Sept. 1–Oct. 31 Feb. 1–28	8	4	
Do.	Feb. 1-28	1		
British South Africa: Northern Rhodesia	Jan. 5-11	2		
Southern Rhodesia	Jan. 5-11 Nov. 13-Dec. 23	3		
Canada				Sept. 13-Jan. 2: In 7 Provinces,
	,		1	186 cases. Jan. 3-May 29, 1926 Cases, 542.
Alberta				Jan. 3-May 1, 1926: Cases, 70.
Calgary	Dec. 13-19	1		From Drumbeller, vicinity of
British Columbia—				Calgary.
Vancouver	Jan. 4-May 30	3		
Victoria	Mar. 21-27	2		Jan. 3-May 8, 1926: Cases, 78.
Manitoba Winnipeg	Dec. 13-19	2		Jan. 6-141ay 6, 1920. Cases, 16.
D0	Jan. 3-Apr. 10	16	1	
New Brunswick—			-	
Northumberland	Dec. 6-13	1		
Ontario			]	Dec. 1-31, 1925: Cases, 32. Jan. 3-May 8, 1926: Cases, 269.
Admoston	Jan. 1-Feb. 1	16		Township.
Admaston Alice and Fraser	Feb 1-28	16		Do.
King	do	7		Do.
Wilmot	do	6		Do.
Belleville	do	4		
Hamilton	June 6-12	1		
Kingston Kitchener	Mar. 8-May 15	2 26		
North Bay	Fcb. 14-Mar. 14	7		
Octawa	Dec. 0-12	2		
1/0		3		•
, Sarnia	Mar. 14-May 8 Dcc. 27-Jan. 2 Jan. 3-May 15 Jan. 3-Apr. 17	9		
Toronto	Dcc. 21-Jan. 2	31		_
Trenton.	Jan 3-Anr 17	15		,
Saskatchewan				Jan. 3-May 8, 1926: Cases, 131.
Moose Jaw	Jan. 3-Mar. 20 Jan. 24-May 1	2		
Regina	Jan. 24-May 1	5		
Saskatoon	Feb. 14-20	1		
Colombo	Dec. 6-12	1		Port case.
Do	Jan. 3-Feb. 6	5		Torr case,
Chile:				
Punta Arenas	Dec. 13-26		. 8	
China:	Dec. 27-Jan. 2		4	
Amoy	Oct. 25-Dec. 19	1	1	
Do	Jan. 10-Apr. 17	1	25	• •
Antung Do	1 1390. (~20)			í
Do	Mar. 21-May 16 Feb. 21-27	9		
Changsha Chungking	Feb. 21-27			Present.
Do	Nov. 15-17			Do. Do.
Foochow	Feb. 28-Apr. 3 Nov. 1-May 1			Do.
Hankow	Nov. 14-Dec. 26 Jan. 10-Mar. 6 Nov. 22-Dec. 26	4		20.
Do	Jan. 10-Mar. 6	3		**
Hongkong Do.	Nov. 22-Dec. 26	4		
Manchuria—	Jan. 3-Apr. 24	19	9	
An-shan	Dec. 6-12	1		'
Do	Jan. 10-May 8	15		South Manchuria Railway.
Changehun	do	51	1	Do.
Dairen	Oct. 19-Dec. 27	73	15	Do.
Do. Fushun	Dec. 28-Apr. 11 Jan. 17-May 8	90	28	Do.
Harbin	Jan. 1-May 6	38		Do.
Kai-vuan	Jan. 10-May 8	8		Do. Do.
Kungehuling	Jan. 31-May 8	4		Do.
DIO-YANG	Jan. 17-May 8	7		Do.
Mukden	OCt. 24~NOV. 15	1		Do.
D ₀	Jan. 24-May 8	9	1	Do.

# Reports Received from December 26, 1925, to June 25, 1926—Continued SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
China-Continued.				
Manchuria—Continued.			l	
Penhsihu	May 2-8	2		South Manchuria Railway.
Suping Kai	Mar. 14-May 1 Oct. 26-Nov. 15 Apr. 18-24 Nov. 21-Dec. 26 Dec. 27-May 8	4 2		Do. Do.
Tieh-ling	Apr. 19 24	1 1		Do.
Do Nanking	Nov 21-Dec 26	1	[	Do. Do.
Do	Dec 27-May 8			Do.
Shanghai	Oct. 25-Jan. 2	37	36	20.
Do	Jan. 3-May 1	64	143	Cases, foreign only.
Swatow	Nov. 22-May 8			Prevalent.
Tientsin	Nov. 1-Dec. 19	2		
Do	Jan. 23-May 8	3		
Chinamas	A 1 20	1		
Chinampo Seishin.	Apr. 1-30	61	34	
Seoul	Apr. 1-30 Jan. 1-Apr. 30 Apr. 1-30	1	01	
Curação	May 3-9	î		From Trinidad.
Egypt:	1710) 0 0	•		110
Alexandria	Dec. 3-31	5	2	
Do	1 Ton 9-14	2	1	
Do	Jan. 29-May 13	81	17	
Cairo		14	i	ļ
Do	Jan. 1-14	8	1	
Port Said	Feb. 26-Mar. 4	1		37
Esthonia France				November, 1925: Cases, 3. September-December, 1925:
Do	Jan. 1-Feb. 28	96		Cases, 253.
Havre.	Jan. 25-31	90	9	Cases, 200.
Paris	Mar 1-4 pr. 30	11	2	
St. Etienne	Apr. 17-30	î	ī	
French Scitlements in India	Jan. 3-Mar. 6	167	159	
Gold Coast	September, De-	58	5	
	comber.			
Do	Jan. 1-Feb. 28	133	5	
Great Britain:				Mar 15 Dec 96 1005, Clause 500.
England and Wales Bradford	Mow 9_15	3		Nov 15-Dec. 26, 1025; Cases, 700; Dec. 27-May 22, 1926; Cases,
Hull	May 2-15 Dec. 27-Jan. 23 Feb. 7-Mar. 27	29		4,806.
Do	Feb. 7-Mar. 27.	ő		,,
Leeds	Jan. 14-May 29 Jan. 31-Feb. 6	5		
London	Jan. 31-Feb. 6		1	
Newcastle-on-Tyne	Nov. 29-Dec. 19	.6		
Do.	Dec. 27-May 20	44	1	
Nottingham	Nov. 29-Dec. 19 Dec. 27-May 29 Nov. 22-Dec. 26 Doc. 27-Apr. 24	. 9		
Do Sheffield	Nov. 22-Dec. 12	8 7		
100	Dec. 20-26	3		
Do	Dec. 27-Mar. 20	18		
Do.	Apr. 25-May 8	3		
Do South Shields	Feb. 9			Reported present in severe form.
Greece				Oct. 1-31, 1925: Clases, 16.
Athens	Nov. 1-Dec. 31 Jan. 1-Mar. 31	18	1	
Do	Jan. 1-Mar. 31	87	6	There The Lane
Kalamata	Mar 1-7 Feb. 16-Apr. 12	1		From Patras.
Saloniki Guadeloupe (West Indies)	Feb. 16-Apr. 12		3	Apr 02-Mar 21 1000: 1 apro
Canadatourise ( As one runner)				Apr. 23-May 31, 1926; 1 case. Alastrim.
India				Ook 18-7300 26 1025 Closes
Bombay.	Nov. 8-Dec. 26	26	20	19.472; deaths, 4.440, Dec. 27
Do	Dog 27-May 1	415	221	1925-Apr. 24, 1926: Cases,
Calcutta	Nov. 8-Dec. 26	48	25	19,472; deaths, 4,440. Dec. 27, 1925-Apr. 24, 1926: Cases, 114,490; deaths, 20,048.
D0	Nov. 8-Dec. 26 Dec. 27-Apr. 3 Nov. 1-21 Nov. 29-Dec. 5	620	397	
Karachi.	Nov. 1-21	23		
Do	Nov. 29-Dec. 5	4	2	
Do.	Dec. 13-19	3		
Do Madras	Dec. 13-19	176 17	53 5	İ
Do	Dag 97-340-15	162	29	
Rangoon	Oct. 25-Doc. 28.	7	1	
Do	Dec. 27-Jan. 16 Jun. 24-Mai. 6	13	î	
				1
Do	Jan. 24-Mai. 6	70	17	

## Reports Received from December 26, 1925, to June 25, 1926—Continued

### SMALLPOX-Continued

Place	, Date	Cases	Deaths	Remarks
Indo-China				September-December, 1925:
Province—	M 4 TO 01	232		Cases, 534; deaths, 110.
Annam	Sept. 1-Dec. 31 do	232 84	44 34	
Cambodia Cochin China	do	106	51	, ,
Saigon	Dec. 21-27	2		
Do	Dec. 21-27 Jan. 1-Mar. 28	14	1 2	Including 100 square kilometers
Tonkin	Sept. 1-Dec. 31	153	2	of surrounding country.
Trag:				
Bagdad Do	Nov. 1-Dec. 26 Dec. 27-May 1	19	15	Sept. 6-Oct. 17, 1925: Cases, 81;
Do	Dec. 27-May 1	27 70	14	Deaths, 40.
Basra	do	70	60	Aug 9 1005-Ton 9 1006: Cocce
ItalyCatania	Feb. 15-28	7	i	Aug. 2, 1925-Jan. 2, 1926: Cases, 52. Jan. 3-Mar. 27, 1926: Cases
Do	Apr. 27-May 2	4	1 -	38.
Genoa	Jan. 21-Feb. 10	1 4		
Rome	Jan. 21-Feb. 10 Oct. 12-25	Ī		
Do	Feb. 22-28	ī		Occurring in consular district:
Jamaica				Nov. 29-Dec. 26, 1925: Cases, 95.
		١.	1	Nov. 29-Dec. 26, 1925: Cases, 95. Dec. 27, 1925-Apr. 24, 1926: Cases, 509. Reported as alas-
		1	1	Cases, 509. Reported as alas-
	37 00 To 00		1	trim.
Kingston	Nov. 29-Dec. 26 Dec. 27-Jan. 30	43		Reported as alastrim.
Kingston Do Do	Feb. 28-Apr. 24	48 36		Do. Do.
Japan:	Feb. 20-Apr. 24	- 00		D0.
Kobe	Mar. 14-May 1	4		
Kobe Nagasaki Taiwan Do	Feb. 15-25	2		
Taiwan	Nov. 11-Dec. 10	3		
Do	Mar. 21-31	3		
Y OK Chama	Dec. 14-20	1		
Java:	Feb. 23-Apr. 24	73	12	,
Batavia	Oct. 24-Dec. 25 Feb. 20-Mar. 19 Nov. 29-Dec. 12	8		1
Po-	Feb. 20-Mar. 19	6		
Burtenzorg	Mov. 29 Dec. 6	1- 1	<u> </u>	ļ
Uneridon.	Nov. 8 Dec. 12	2		]
Do.			1	l
East Java and Madoera Kraksaan	Oct 17 17	11		
Malang	Mar. 28-Apr. 10 Oct. 11-17 Oct. 11-Dec. 26	17 110	2	
Do			2	1
North Bantam	Oct. 4-17	4		
Pekalongan	Oct. 25-31	1		`
Pontianak	Oct. 4-17 Oct. 25-31 Jan. 31-Feb. 6 Oct. 11-17		1	
Probolinggo	Oct. 11-17	. 1		
Serang	Feb. 14-27. Feb. 23-Mar. 27.	5		`
South Bantam	Feb. 23-Mar. 27	1		~
Surabaya	Dec. 11-Dec. 26	633	104	
Do	Oct. II-Dec. 26 Dec. 27-Mar. 13 Oct. 4-10	141	43 1	•
Tegal Latvia	006. 4-10	1 3	1	December, 1925: Cases, 3.
Malta	Nov. 1-Dec. 21	21	3	December, 1920. Cases, o.
Do	Jan. 1-Feb. 28	20		,
Martinique	May 16	1	•	Prevalent.
rort de rrance	Apr. 11-May 1	6		Alastrim.
MexicoAguascalientes				July-September, 1925: Deaths
Aguascalientes	Dec. 13-Jan. 2	4	3	1,157.
D0	Jan. 3-30		7	
Do	Feb. 14-May 22		. 18	ŧ
Camargo Chihuahua	May 22	. 2		
Ciudad Juarez	May 9-17		2	
Durango	May 22 May 9-17 May 9-24 Dec. 1-31		1	,
Dα			2	İ
Guadalajara	Dec. 27-June 7		28	
Guadalajara Mexico City	Nov. 28-Dec. 5	i		Including municipalities in Fed
	1		1	eral District.
D0	Jan. 3-May 22	34		Do.
Saltillo San Luis Potosi	Apr. 4-10	1	==	
Do	Mon 90 Tunn		53	
Tampico	Dec 21-Ton 2		44	
Tampico	Jan 2-Mar 10	8	1	
Torreon.	Nov. 1-Dec. 31	1 0	51	,
Do	Mar. 28-June 5 Dec. 21-Jan. 2 Jan. 2-Mar. 10 Nov. 1-Dec. 31 Jan. 1-May 31		90	ł
Vera Cruz	Mar. 29-Apr. 4	5	1 1	ł
			-	

# Reports Received from December 26, 1925, to June 25, 1926—Continued SMALLPOX—Continued

Place	Date	Cases	Deaths	Romarks .
Netherlands: The Hague	Jan. 30-Mar. 6	2	1	
Nigeria		1	1	Aug. 1-Dec. 31, 1925; Cases, 389;
Do	Jan. 1-31	135	1	deaths, 6.
Palestine:	Tom Of Tab 00	3	1 .	
Hebron Jerusalem	Jan. 26-Feb. 28 Feb. 1-28	ı		
Tiberias	Feb. 9-15	i		
Persia:	1	ļ .		
Teheran	July 23-Dec. 22		775	
Peru:	Dec. 23-Mar. 21		105	
Arequipa	Oct. 1-Dec. 31	İ	2	
Poland	000.1-200.01			Nov. 1-28, 1925: Cases, 9. Jan.
				1-Mar. 27, 1926; Cases, 20. Mar. 1-28, 1926: Deaths, 6.
Portugal				Mar. 1-28, 1926: Deaths, 6.
Lisbon	Oct. 4-31	124	60	
Do	Nov. 16-Dec. 27 Nov. 14-Dec. 26	187	60	
Do	Dec. 27-May 29	159	32	
Oporto-	Nov. 22-Dec. 19	2	3	
Oporto	Nov. 22-Dec. 19 Dec. 27-May 15	5	1	
Rumania	August-October	3		3.5 Y 100K- G 0.000
Russia				May-June, 1925: Cases, 2,333.
				July 1-Dec. 31, 1925; Cases, 4,019.
Senegal:				-,024
Dakar	Apr. 19-25	1		
Siam	The 00 of			July 12-Sept. 5, 1925: Cases 21:
Bangkok Do	Dec. 20-25 Dec. 26-Mar. 6	3 81	1 37	deaths, 6.
Do	Mar. 14-Apr. 10	30	18	
Sierra Leone:	2,2011 22 21p11 10122			
Konno district	Dec. 16-31	5		<b>'</b>
Spain:	TT 1007			
Madrid Do	Year 1925	****	18 1	
Malaga	Nov. 29-Dec. 5		2	
Do	Nov. 29-Dec. 5 Dec. 27-Jan. 2 Dec. 20-26 Dec. 27-Jan. 2		ī	
Valencia	Dec. 20-26	1		
Do	Dec. 27-Jan. 2	1		ch l
Do	1 Jan. 10-Feb. 6	9 22	3	
Do Straits Settlements:	Feb. 14-May 29	22	١	
Penang	Mar. 28-Apr. 3		1	
Singapore	Dec. 20-26	1		
Do	Jan. 10-Mar. 27	8	2	
Sumatra: Medan	Feb. 14-27	2		
8witzerland				June 28-Nov. 21, 1925; Cases, 62;
Lucerne	Oct. 1-Nov. 30	8		June 28-Nov. 21, 1925: Cases, 62; Dec. 27, 1925-Apr. 3, 1926:
Do	Jan. 1-Mar. 31	6		Cases, 51.
Zurich	Dec. 27-Jan. 2	1		
Syria; Damascus	Apr. 11-20	1		
Trinidad (West Indies):	-	-		
Port of Spain	Jan. 1-Apr. 3 July 1-Dec. 31	12		
Tripolitania	July 1-Dec. 31	34		
Do	Jan. 1-Feb. 28	12		Jan. 1-Mar. 31, 1926: Gases, 123.
Tunisia Tunis	Nov 21-30	2	~~~~~~	Jun. 1-Wint. 51, 1920. Oases, 125.
Do	Dec. 11-31	10	i	
Do	Nov. 21-30 Dec. 11-31 Jan. 1-Apr. 20	7	1	
Turkey:		_		
Constantinople	Mar. 9-23.	2	3	
Union of South Africa:	Jan. 17-23			Outbreaks:
Orange Free State	Anr. 25-May 1			Do.
Kuruman district Ladybrand district	Jan. 10–16. Dec. 27–Jan. 2			Do. Do.
Ladybrand district	Dec. 27-Jan. 2			<b>D</b> 0.
Transvaal- Belfast district	do.			Do.
Germiston district	Jan. 2-9			Do.
Pretorie district.	Dec. 8-12	*******		Outbreaks. In native com-
	1		74 7 74 1	peunds.
On vessel	Feb. 21	2		Mexican steamer Montezums, at Port of Ensenada, Mexico.

# Reports Received from December 26, 1925, to June 25, 1926—Continued TYPHUS FEVER

Place	Date		Deaths	Remarks	
Algeria:					
Algiers.	Nov. 1-Dec. 20	2			
Do	Jan. 1-Apr. 10	13			
Argentina: (.					
Rosario	Oct. 13-Dec. 31 Sept. 1-Dec. 31	2			
Bulgaria	Sept. 1-Dec. 31	50	3		
Do	Jan. 1-Feb. 28	112			
Sofia	Dec. 25-31	1			
Do	Jan. 8-14	2			
Canary Islands.	75 044	_			
Santa Cruz de Tenerife	Mar, 8-14	1			
Chile				Dec. 15-31, 1925: Cases, 46. Jan	
Achao	Dec. 15-31	1		1-15, 1926: Cases, 23.	
Do	Jan. 1-15	1			
Ancud	do	2			
Antofagasta	Apr. 11-May 15 Dec. 15-31	5			
Bulnes	Dec. 15-31	1			
Chillan	do	24			
Cencepcion Linares	qo	6			
Linares		1			
Los Angeles Penco.	UV	5 2			
	do	17			
Salamanca					
San Carlos	do	1			
Talea	Nov. 29-Jan. 2				
Valparaiso	Jan. 3-Mar. 27	5	2		
Do	Jan. 3-Mar. 21	4			
China:	M 00 D 07	_			
Antung.	Nov. 29-Dec. 27	5 38	1		
Do	J.m. 4-May 16	1			
Hongkong.	Dec. 27-Jan. 2	1			
Manchuria—	Dec 17 Beh 4	3	1		
Harbin	Dec. 17-Feb. 4				
Do	Apr. 2-S. Mar. 14-20.	1			
Shanghai	Mar. 14-10	1		Jan. 1-31, 1926: Cases, 70; deaths	
OHOSUH			]	7.	
Czechoslovákla	October-December	146	1	••	
Do	Jan. 1-Feb. 28	67	_		
Egypt:	7	0,			
Alexandria	Jan. 8-Feb. 25	2			
Do	Apr. 30-May 6	ľ			
Cairo	Apr. 30-May 6 Nov. 5-Dec. 16	8	2	'	
Port Said	Nov. 19-25	1			
Do	Mar. 12-May 16 Jan. 1-Apr. 30	3			
Esthonia	Jan. 1-Apr. 30	23			
Finand	l			October, 1925: 1 case.	
France	July-October	4			
Greece	1			December, 1925: Cases, 12.	
Athens	Nov. 1-30 Jan. 1-Mar. 31	11	2		
Do	7 + 37 At				
	Jan. 1-Mar. 31	45	9		
Saloniki	Dec. 29-Jan. 4	45 1	9		
Saloniki Do	Dec. 29-Jan. 4		9	,	
Do	Dec. 29-Jan. 4 Feb. 2-Apr. 19	1	9	November-December, 1925	
Do	Feb. 2-Apr. 19	1	9		
Hungary	Feb. 2-Apr. 19	1	9		
Do	Feb. 2-Apr. 19	1	9	Cases, 16. Jan. 1-31, 1926	
Do	Dec. 29-Jan. 4 Feb. 2-Apr. 19	1 4	9	Cases, 16. Jan. 1-31, 1926	
Do	Dec. 29-Jan. 4	1	9	Cases, 16. Jan. 1-31, 1926	
Do	Dec. 26-Jan. 1	1 4 2 5	9	Cases, 16. Jan. 1-31, 1926	
DoHungary	Dec. 26-Jan. 1	1 4 2 5	9	Cases, 16. Jan. 1-31, 1926	
Do	Dec. 26-Jan. 1. Jan. 2-8. May 2-8. Nov. 14.	1 4 2 5	9	Cases, 16. Jan. 1-31, 1926	
Do	Dec. 26-Jan. 1. Jan. 2-8. May 2-8. Nov. 14.	1 4 2 5	9	Cases, 16. Jan. 1-31, 1926	
Do	Dec. 28-Jan. 4.  Feb. 2-Apr. 19  Dec. 28-Jan. 1.  Jan. 2-8  May 2-8  Nov. 14  Oct. 17	2 5 1	9	Cases, 16. Jan. 1-31, 1926 Cases, 6.	
Do	Dec. 26-Jan. 1. Jan. 2-8. May 2-8. Nov. 14.	2 5 1	9	Cases, 16. Jan. 1-31, 1926	
Do Hungary  Ireland: Cork County— Cork Do Do Dumanway. Galway County Kerry County Listowel	Dec. 28-Jan. 4. Feb. 2-Apr. 19  Dec. 28-Jan. 1. Jan. 2-8 Nov. 14 Oct. 17  Mar. 7-13	2 5 1 1 1	9	Cases, 16. Jan. 1-31, 1926 Cases, 6.	
Do. Hungary.  Ireland: Cork County—	Dec. 28-Jan. 4. Feb. 2-Apr. 19  Dec. 28-Jan. 1. Jan. 2-8 Nov. 14 Oct. 17  Mar. 7-13	2 5 1 1 1	9	Cases, 16. Jan. 1-31, 1926 Cases, 6.	
Do. Hungary.  Ireland: Cork County— Cork. Do. Do. Dumanway. Galway County. Kerry County— Listowel. Tipperary County— Cashel District. Wexford County—	Dec. 28-Jan. 4.  Feb. 2-Apr. 19  Dec. 28-Jan. 1.  Jan. 2-8  May 2-8  Nov. 14  Oct. 17	2 5 1 1 1	9	Cases, 16. Jan. 1-31, 1926 Cases, 6.	
Do. Hungary.  Ireland: Cork County— Cork. Do. Do. Do. Dumanway. Galway County— Listowel. Tipperary County— Cashel District Wexford County— Gorey.	Dec. 29-Jan. 4	2 5 1 1 1	9	Cases, 16. Jan. 1-31, 1926 Cases, 6.	
Do. Hungary.  Ireland: Cork County— Cork. Do. Do. Dumanway. Galway County. Kerry County— Listowel. Tipperary County— Cashel District. Wesford County— Gorey.  Italy	Dec. 29-Jan. 4	2 5 1 1 1 1	9	Cases, 16. Jan. 1-31, 1926 Cases, 6.	
Do. Hungary.  Ireland: Cork County— Cork. Do. Do. Dumanway. Galway County. Kerry County— Listowel. Tipperary County— Cashel District. Wesford County— Gorey.  Italy	Dec. 29-Jan. 4. Feb. 2-Apr. 19  Dec. 26-Jan. 1. Jan. 2-8 May 2-8 Nov. 14 Oct. 17  Mar. 7-13  May 9-15  do Feb. 21-Mar. 27 October-December	2 5 1 1 1 1 1 1 38	9	Cases, 16. Jan. 1-31, 1926 Cases, 6.	
Do. Hungary.  Ireland: Cork County— Cork. Do. Do. Do. Solver County— Listowel Tipperary County— Cashel District Wexford County— Gorey.  Italy Latvia.	Dec. 29-Jan. 4. Feb. 2-Apr. 19  Dec. 26-Jan. 1. Jan. 2-8 May 2-8 Nov. 14 Oct. 17  Mar. 7-13  May 9-15  do Feb. 21-Mar. 27 October-December	2 5 1 1 1 1 1 38 12	9	Cases, 16. Jan. 1-31, 1926 Cases, 6.	
Do. Hungary.  Ireland: Cork County—	Dec. 29-Jan. 4. Feb. 2-Apr. 19  Dec. 26-Jan. 1. Jan. 2-8 May 2-8 Nov. 14 Oct. 17  Mar. 7-13  May 9-15  do Feb. 21-Mar. 27 October-December	2 5 1 1 1 1 1 38 12 20	9	Cases, 16. Jan. 1-31, 1926 Cases, 6.	
Do. Hungary.  Ireland: Cork County— Cork. Do. Do. Do. Dumanway. Galway County— Listowel. Tipperary County— Cashel District. Wexford County— Gorey. Italy. Latvia. Do. Riga	Dec. 29-Jan. 4. Feb. 2-Apr. 19  Dec. 26-Jan. 1. Jan. 2-8  May 2-8  Nov. 14  Oct. 17  Mar. 7-13  May 9-15  do. Feb. 21-Mar. 27	2 5 1 1 1 1 1 38 12	9	Cases, 16. Jan. 1-31, 1926 Cases, 6.  Rural district.  Do.	
Do. Hungary.  Ireland: Cork County—	Dec. 29-Jan. 4. Feb. 2-Apr. 19  Dec. 26-Jan. 1. Jan. 2-8 May 2-8 Nov. 14 Oct. 17  Mar. 7-13  May 9-15  do Feb. 21-Mar. 27 October-December	2 5 1 1 1 1 1 38 12 20	9	Cases, 16. Jan. 1-31, 1926 Cases, 6.  Rural district.  Do.	
Do. Hungary.  Ireland: Cork County— Cork. Do. Do. Do. Dumanway. Galway County— Listowel. Tipperary County— Cashel District. Wexford County— Gorey. Italy. Latvia. Do. Riga	Dec. 29-Jan. 4. Feb. 2-Apr. 19  Dec. 26-Jan. 1. Jan. 2-8 May 2-8 Nov. 14 Oct. 17  Mar. 7-13  May 9-15  do Feb. 21-Mar. 27 October-December	2 5 1 1 1 1 1 38 12 20	9	Cases, 16. Jan. 1-31, 1926 Cases, 6.  Rural district.	

## Reports Received from December 26, 1925, to June 25, 1926-Continued

### TYPHUS FEVER-Continued

Place	Date	Cases	Deaths	Remarks
Aexico				July-September, 1925: Death
Aguascalientes	Dec. 14–19 May 2–8 Dec. 1–31	1		90.
Do	May 2-8		1	
Durango	Dec. 1-31		1	
Do	Jan. 1-31		1	
Guadalajara	Dec. 8-23 Dec. 29-Jan. 4		2	
Do	Nov. 22-Dec. 26	50	1	Including municipalities in Fe
Mexico City				eral District.
Do	Dec. 27-Mar 20	89		Do.
Do	Mar. 28-Apr. 10 Apr. 25-May 1	11		Do.
Do San Luis Potosi	Apr. 25-May 1	10		Do.
San Luis Potosi	Feb. 6-13		1	
Tampico	Dec. 21-Jan. 10	1	1	
Torreon	November, 1925		1	
Vera Cruz	Feb. 12 August-December		1	
[orocco	Jan. 1-Feb. 28	93		
Do	Jan. 1-1 0D. 25	130		Maramhan Dagamhan 10
orwity				November-December, 19 Cases, 2.
alestine:	75 00 1 5			
Ekron	Mar. 30-Apr. 5	1		
Gaza	Dec. 18. Mar. 16-May 10			
Haifa	Mar. 16-May 10	3		
Jaffa	Dec. 1-7	1		
Do Nazareth	Feb. 23-Mar. 1	1		
Nazaretn	Nov. 3-9 Mar. 16-22 Nov. 24-30	1		
Ramleh	Mar. 10-22	1		
Sufed Tel-Aviv	NOV. 24~30	1		
Do	do Mar. 9-15	i	~~~~~	
Tiberias	do	2		
eru:		_		
Arequipa	October-December		3	,
Do	Feb. 1-Mar. 31		3 2	
oland	Feb. 1-Mar. 31 Oct. 11-Jan. 2 Jan. 3-Mar. 27	462	44	
Do	Jan. 3-Mar. 27	1,468	114	
umania				July 1-Dec. 31, 1925: Cases, 3 deaths, 41, Jan. 1-Feb. 1926: Cases, 224; deaths, 21, May-June, 1925: Cases, 10,6 July 1-Dec. 31, 1925: Case 11,253. Jun. 1-Mar. 31, 19
Constantza	Feb. 1-Mar. 10	2		deaths, 41. Jan. 1-Feb.
• •			' '	1926: Cases, 324; deaths, 21.
ussia				May-June, 1926: Cases, 10,6
Do				July 1-Dec. 31, 1926; Cas
unisia•				Cases, 180.
Tunis	Mar. 21-May 10	6		Chaus, 100.
urkey:	17141.21-1416y 10			,
Constantinople	Inn 24-30	3		
Do	Jan. 24-30 Feb. 9-Mar. 31	ĕ	4	
nion of South Africa.	20000 30000 100000	"	*	October, 1925: Cuses, 88: dest.
21021 01 201120 221101112121212			*********	7 (colored). Clases, Europea
				7. December, 1925; Cases.
		ł		deaths, 9. Colored: Cases.
				deaths, 9. Jan. 1-Mar.
	·		}	1926: Cases, 200; deaths,
		ļ,		October, 1925: Cases, 88; deat 7 (colored). Cases, Europea 7. December, 1925: Cases, deaths, 9. Colored: Cases, deaths, 9. Jan. 1-Mar. 1926: Cases, 200; deaths, Apr. 4-24, 1920: Outbreaks
Cape Province	Oct. 1-31	63	5	Colored.
Do	Nov. 8-1)ec. 31	47	8	1
Do	Jan. 1-Mar. 81:	159	21	
Do	Apr. 30-May 1			Outhreaks in four districts, 10 localities.
Grahamstown	Jan. 24-30	2		
Kimberley district	Apr. 11-17 Dec. 0-12	1		At Beaconsfield location.
Middleburg district	Dec. 6-12	1		European. On farm.
Molteno district	do.			Outbreaks.
Steynsburg district	do. Oct. 1-Dec. 5 Jan. 1-Mar. 31			Do.
Natal	Oct. 1-Dec. 5	1		
Do	Jan. 1-Mar. 31	13	1	Colored.
Durpan		11	ī	1
Port Shepstone	Apr. 4-10	1		,
Port Shepstone Orange Free State	Nov. 29-Dec. 5	23	1	,
Do	Dec. 1-31	8	1	1
*****************				
Dol. Bethulia district	Apr. 4-10 Nov. 29-Dec. 5 Dec. 1-31 Jan. 1-Feb. 28	8	8	Do. Outbreaks.

## Reports Received from December 26, 1925, to June 25, 1926—Continued

Date	Cases	Deaths	Remarks
et. 1-31	1 18 9 3	1	Outbreak. On farm. Jan 1-Mar. 21, 1926: Cases, 105; deaths, 18.
YELLOW	FEVE	R	
ept. 1-Dec. 31 ugust-October	4 3	3-20	MarMay 17, 1926: Cases, 30; several deaths, in Parahyba; a smaller number in Natal.
I CE	cc. 1-31	cc. 1-31	ec. 1-31

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